

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 24.10.2011

Version number 1

Revision: 24.10.2011

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

- Product identifier

- Trade name: **MIXANIL SC**

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

- Application of the substance / the preparation Plant protection product

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

OXON Italia S.p.A. - Via Sempione, 195 - I20016 Pero (MI)

ITALY

Phone: + 39 02 353781 - Fax: + 39 02 3390275

FACTORY

SIPCAM S.P.A. - Via Vittorio Veneto,81 - I26857 SALERANO SUL LAMBRO (LO)

ITALY

Phone: + 39 0371 5961 - Fax: + 39 0371 71408

Contact people: Paola Da Prato

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- Informing department: Product safety department.

- Emergency telephone number: Emergency phone: +39 0384 807711 (24h/24h)

2 Hazards identification

- Classification of the substance or mixture

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC

 Xn; Harmful

R20-40: Harmful by inhalation. Limited evidence of a carcinogenic effect.

 Xi; Irritant

R37: Irritating to respiratory system.

 Xi; Sensitising

R43: May cause sensitisation by skin contact.

 N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

- Additional information: No data

- Label elements

- Labelling according to EU guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

- Code letter and hazard designation of product:



Xn Harmful

N Dangerous for the environment

- Hazard-determining components of labelling:

CHLOROTHALONIL

cymoxanil

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- Risk phrases:

- 20 Harmful by inhalation.
37 Irritating to respiratory system.
40 Limited evidence of a carcinogenic effect.
43 May cause sensitisation by skin contact.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Safety phrases:

- 4 Keep away from living quarters.
9 Keep container in a well-ventilated place.
20 When using do not eat or drink.
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of water.
36 Wear suitable protective clothing.
37 Wear suitable gloves.
39 Wear eye/face protection.
38 In case of insufficient ventilation, wear suitable respiratory equipment.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
57 Use appropriate container to avoid environmental contamination.

- Other hazards**- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.

3 Composition/information on ingredients

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

CAS: 1897-45-6 EINECS: 217-588-1	CHLOROTHALONIL  T+ R26;  Xn R40;  Xi R37-41;  Xi R43;  N R50/53 Carc. Cat. 3 <hr/>  Acute Tox. 2, H330;  Carc. 2, H351;  Eye Dam. 1, H318;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Skin Sens. 1, H317; STOT SE 3, H335	31.5%
CAS: 57966-95-7 EINECS: 261-043-0	cymoxanil  Xn R22;  Xi R43;  N R50/53 <hr/>  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Skin Sens. 1, H317	4.2%

- Additional information

Water 40-50%

For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- 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.

Show this safety data sheet to the doctor

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- After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.



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

- After skin contact

Seek medical treatment.



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 In case of persistent symptoms consult doctor.

- Information for doctor no particular informations

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

- Indication of any immediate medical attention and special treatment needed

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

Medical supervision for at least 48 hours

5 Firefighting measures

- Extinguishing media

- Suitable extinguishing agents

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

- Special hazards arising from the substance or mixture

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

Carbon monoxide (CO)

Hydrogen chloride (HCl)

Nitrogen oxides (NO_x)

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

- Advice for firefighters

- Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

Put on breathing apparatus.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- Environmental precautions:

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

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

- 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 item 13.

Ensure adequate ventilation.

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- **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.

7 Handling and storage

- **Handling**
- **Precautions for safe handling**
- Prevent formation of dust.
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
- Keep ignition sources away - Do not smoke.
- The product is not flammable
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
- Prevent any penetration into the ground.
- Store in cool location
- Store only in the original container.
- **Information about storage in one common storage facility:**
- Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
- **Further information about storage conditions:**
- Store container in a well ventilated position.
- Store in cool, dry conditions in well sealed containers.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

- **Control parameters**

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

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.

- **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.
- Avoid contact with the eyes and skin.

- **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

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- 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: Safety glasses recommended during refilling.

- Body protection: Use protective suit.

9 Physical and chemical properties

- Information on basic physical and chemical properties**- General Information****- Appearance:**

Form: Fluid
Colour: Whitish

- Odour: Characteristic

- Odour threshold: Not determined.

- pH-value: 4.28

- Change in condition

Melting point/Melting range: Not applicable

Boiling point/Boiling range: > 100°C

- Flash point: Not applicable

- Ignition temperature:

Decomposition temperature: Not determined.

- Self-inflammability: Product is not selfigniting.

- Danger of explosion: Product is not explosive.

- Vapour pressure: Not determined.

- Density at 20°C 1.19 g/cm³

- Solubility in / Miscibility with

Water: Dispersible

- Solvent content:

Organic solvents: 0.0 %

Solids content: circa 40 %

- Other information No further relevant information available.

10 Stability and reactivity

- Reactivity**- Chemical stability**

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

- Possibility of hazardous reactions No dangerous reactions known

- Conditions to avoid No further relevant information available.

- Incompatible materials: No further relevant information available.

- Hazardous decomposition products: No dangerous decomposition products known

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11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

- LD/LC50 values that are relevant for classification:

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>4000 mg/kg (rat)
Inhalative	LC50 (4 h)	>1.037 mg/l (rat)
	LC50	0.11 mg/l (O. mykiss)

1897-45-6 CHLOROTHALONIL

Oral	LD50	>5000 mg/kg (rat) 10000 mg/kg (66) 4640 mg/kg (duc)
Inhalative	LC50 (4 h)	0.1 mg/l (rat)
	ADI (acceptable daily intake) mg/kg/b.w./day	0.015 mg/kg/bw (man) (--)

57966-95-7 cymoxanil

Oral	LD50	960 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
Inhalative	LC50 (4 h)	> 5.6 mg/l (rat)
	ADI (acceptable daily intake) mg/kg/b.w./day	0.013 mg/kg/bw (man) (--)
	log Pow	0.59-0.67 (--)

- Primary irritant effect:

- on the skin: No irritant effect.

- on the eye: No irritant effect.

- Sensitization: Sensitization possible by skin contact.

- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

- Sensitisation May cause sensitization by skin contact

12 Ecological information

- Toxicity

- Aquatic toxicity:

EC50	54 mg/l (ALGAE)
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1897-45-6 CHLOROTHALONIL

ALGAE EC50	0.116 mg/l (Selenastrum capricornutum)
DAPHNIA: EC50 (24h)	0.084 mg/l (Daphnia magna)
FISH: LC50 (96h)	0.043 mg/l (catfish)
	0.038 mg/l (rainbow trout)
LD50 (96h)	0.059 mg/l (bluegill sunfish)

57966-95-7 cymoxanil

ALGAE EC50	0.254 mg/l (Anabaena flos-aquae)
DAPHNIA: EC50 (48h)	27 mg/l (cyprinus carpo)
FISH: LC50 (96h)	61 mg/l (rainbow trout)
	29 mg/l (Lepomis macrochirus)

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- **Persistence and degradability** No further relevant information available.- **Behaviour in environmental systems:**- **Bioaccumulative potential****1897-45-6 CHLOROTHALONIL**

Kow logP 2.94 (a/o)

- **Mobility in soil** No further relevant information available.- **Ecotoxicological effects:**- **Remark:** Very toxic for fish- **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

- **Results of PBT and vPvB assessment**- **PBT:** Not applicable.- **vPvB:** Not applicable.- **Other adverse effects** No further relevant information available.**13 Disposal considerations**- **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.**14 Transport information**- **UN-Number**- **ADR, IMDG, IATA**

UN2902

- **UN proper shipping name**- **ADR**2902 PESTICIDE, LIQUID, TOXIC, N.O.S.
(CHLOROTHALONIL, cymoxanil), ENVIRONMENTALLY
HAZARDOUS- **IMDG**PESTICIDE, LIQUID, TOXIC, N.O.S. (CHLOROTHALONIL,
cymoxanil), MARINE POLLUTANT- **IATA**PESTICIDE, LIQUID, TOXIC, N.O.S. (CHLOROTHALONIL,
cymoxanil)- **Transport hazard class(es)**- **ADR**- **Class**

6.1 (T6) Toxic substances.

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- Label 6.1**- IMDG****- Class** 6.1 Toxic substances.**- Label** 6.1**- IATA****- Class** 6.1 Toxic substances.**- Label** 6.1**- Packing group****- ADR, IMDG, IATA** III**- Environmental hazards:** Product contains environmentally hazardous substances: CHLOROTHALONIL, cymoxanil**- Marine pollutant:** Symbol (fish and tree)**- Special marking (ADR):** Symbol (fish and tree)**- Special precautions for user** Warning: Toxic substances.**- Kemler Number:** 60**- EMS Number:** F-A,S-A**- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.**- Transport/Additional information:****- ADR****- Tunnel restriction code** E

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture**- National regulations****- Water hazard class:** Water danger class 3 (Self-assessment): extremely hazardous for water.**- Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

- Relevant phrases

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

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H410 Very toxic to aquatic life with long lasting effects.

R22 Harmful if swallowed.

R26 Very toxic by inhalation.

R37 Irritating to respiratory system.

R40 Limited evidence of a carcinogenic effect.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Department issuing data specification sheet: Product safety department.

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