

**Micropur Tabletten MC 1T**

Print date 13.04.2023  
Revision date 23.02.2023  
Version 1.1 (en)  
replaces version of 13.09.2022 (1.0)

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

**1.1 Product identifier**

**Trade name/designation** Micropur Tabletten MC 1T

**Hazard components**

Silver

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

**Sector of uses [SU]**

SU21 Consumer uses: Private households (= general public = consumers)

**Product Categories [PC]**

disinfectants  
PC8 Biocidal products

**Use of the substance/mixture**

Preservation of the quality of drinking water in reservoirs

**1.3 Details of the supplier of the safety data sheet**

**Distribution Europe**

Katadyn Deutschland GmbH  
Hessenring 23  
D-64546 Mörfelden-Walldorf  
Department responsible for information:  
This number is only available at office times.  
Telephone +49 6105 45 67 89

**Manufacturer / Distribution Switzerland**

Katadyn Produkte AG  
Pfäffikerstrasse 37  
CH-8310 Kemptthal  
Telephone +41 44 839 21 11

Department responsible for information:  
This number is only available at office times.  
Telephone +41 44 839 21 11

E-mail (competent person):  
info@katadyn.ch

\* **1.4 Emergency telephone number**

Swiss toxicological Information Center 145  
Europe: GBK GmbH +49 (0)6132-84463

\* **SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP] Classification procedure

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Aquatic Chronic 1, H410

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**Hazard statements for environmental hazards**

H410 Very toxic to aquatic life with long lasting effects.

**Remark**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**2.2 Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard components**

Silver

**Hazard pictograms**



GHS09

**Signal word**

Warning

**Hazard statements**

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local legislation.

**\* 2.3 Other hazards**

No data available

**\* SECTION 3: Composition / information on ingredients**

**\* 3.2 Mixtures**

**Hazardous ingredients**

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
7440-22-4	231-131-3	Silver	0.25 weight-%	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	M=10 (Aquatic Acute 1) M=10 (Aquatic Chronic 1)

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

Remove contaminated, saturated clothing immediately.

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**Following inhalation**

Remove casualty to fresh air and keep warm and at rest.  
In the event of symptoms refer for medical treatment.

**Following skin contact**

After contact with skin, wash immediately with plenty of water and soap.  
In case of skin irritation, consult a physician.

**After eye contact**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**Following ingestion**

If swallowed seek medical advice immediately and show the doctor packing or label.  
Rinse mouth thoroughly with water.  
Let water be drunk in little sips (dilution effect).

**4.2 Most important symptoms and effects, both acute and delayed**

No data available

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

alcohol resistant foam  
Extinguishing powder  
Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

Full water jet

**5.2 Special hazards arising from the substance or mixture**

**Hazardous combustion products**

none

**5.3 Advice for firefighters**

**Special protective equipment for firefighters**

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

**Additional information**

The product itself does not burn.  
Co-ordinate fire-fighting measures to the fire surroundings.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Avoid contact with skin and eyes.  
Do not breathe dust.  
Avoid dust formation.  
Use personal protection equipment.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

#### For containment

Moisten, take up mechanically and send for disposal.  
Send in suitable containers for recovery or disposal.

#### For cleaning up

Avoid dust formation.

### 6.4 Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Protective measures

Avoid contact with skin and eyes.  
Do not breathe dust.  
Avoid the formation and deposition of dust.  
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.  
Keep the packing dry and well sealed to prevent contamination and absorption of humidity.  
Keep in a cool, well-ventilated place.  
Avoid:  
Eye contact  
Skin contact  
Do not inhale dust.

#### Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.  
Brush off contaminated clothing.  
Keep away from food and drink.  
Wash hands before breaks and after work.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep/Store only in original container.  
Keep container tightly closed.

#### Storage class

11 Combustible solids that cannot be assigned to any of the above storage classes

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**Materials to avoid**

Do not store together with:  
Food and feedingstuffs

**Further information on storage conditions**

Protect from atmospheric moisture and water

**7.3 Specific end use(s)**

No data available

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational exposure limit values**

CAS No.	EC No.	Substance name	occupational exposure limit value
7440-22-4	231-131-3	Silver, metallic	0,1 [mg/m <sup>3</sup> ] 2000/39/EC
	231-131-3	Silver (soluble compounds as Ag)	0,01 [mg/m <sup>3</sup> ] 2006/15/EC
7440-22-4	231-131-3	Silver, metallic	0,1 [mg/m <sup>3</sup> ] (IE)
7440-22-4	231-131-3	Silver compounds, soluble	0,01 [mg/m <sup>3</sup> ] (IE)
7440-22-4	231-131-3	Silver, metallic	0,1 [mg/m <sup>3</sup> ] (UK)
7440-22-4	231-131-3	Silver compounds, soluble	0,01 [mg/m <sup>3</sup> ] (UK)

**8.2 Exposure controls**

**Appropriate engineering controls**

**Technical measures to prevent exposure**

Avoid the formation and deposition of dust.  
Provide suitable extraction at the processing machines.

**Personal protection equipment**

**Eye/face protection**

No special measures necessary if used correctly.

**Hand protection**

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: nitrile rubber or butyle rubber; 0,5 mm; ca 480 Min.  
Please observe the glove manufacturer's instructions on permeability and ruptur times as well as the specific workplace conditions.

**Body protection:**

Light protective clothing.

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**Respiratory protection**

Respiratory protection necessary at:  
 insufficient ventilation  
 Particle-filtering half mask, filter P3

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Physical state**

Tablets

**Colour**

white

**Odour**

odourless

**Safety relevant basis data**

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	Melting point 801 °C		
Boiling point or initial boiling point and boiling range	1440 °C		
flammability	not determined		
Lower and upper explosion limit	not determined		
Flash point	not determined		
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	in delivery state		not determined
Viscosity	not determined		
Solubility(ies)	Water solubility		soluble
Partition coefficient n-octanol/water (log value)			not determined
Vapour pressure	not determined		
Density and/or relative density	1.2 g/cm <sup>3</sup> (20°C)		
Relative vapour density	not determined		
particle characteristics	not determined		

**9.2 Other information**

**Other safety characteristics**

	Value	Method	Source, Remark
Explosive properties			The product is not explosiv.

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No data available

**10.2 Chemical stability**

No data available

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No decomposition if used as directed.

**10.5 Incompatible materials**

Reactions with strong acids.  
Oxidising agent, strong

**10.6 Hazardous decomposition products**

Stable under normal conditions.

**SECTION 11: Toxicological information**

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

**Acute toxicity**

**Animal data**

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	> 2000 mg/kg Species Rat		
Acute dermal toxicity	not determined		
Acute inhalation toxicity	not determined		

**Skin corrosion/irritation**

**Animal data**

Result / Evaluation	Method	Source, Remark
non-irritant.		

**Serious eye damage/irritation**

**Animal data**

Result / Evaluation	Method	Source, Remark
non-irritant.		

**Sensitisation to the respiratory tract**

not determined

**Skin sensitisation**

**Animal data**

Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.			

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**Germ cell mutagenicity**

	Value	Method	Result / Evaluation	Remark
In vitro mutagenicity/genotoxicity				No data available.

**Carcinogenicity**

**Animal data**

	Value	Method	Result / Evaluation	Remark
Carcinogenicity				No data available.

**Reproductive toxicity**

**Animal data**

	Value	Method	Result / Evaluation	Remark
Reproductive toxicity				No data available.

**STOT-single exposure**

not determined

**STOT-repeated exposure**

not determined

**Aspiration hazard**

not determined

**11.2 Information on other hazards**

**Symptoms related to the physical, chemical and toxicological characteristics**

	Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties		No data available	

**Other information**

In the case of appropriate handling and intended use no healthwise unfavorable effects of the product are well-known.  
 Toxicological data are not available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity			
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea			
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria			
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		



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	Effective dose	Method,Evaluation	Source, Remark
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

**12.2 Persistence and degradability**

	Value	Method	Source, Remark
Biodegradation			No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Endocrine disrupting properties**

No data available

**12.7 Other adverse effects**

**Additional ecotoxicological information**

**Additional information**

Do not discharge into the drains/surface waters/groundwater.  
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 Ecological dates are not available.  
 Do not allow uncontrolled discharge of product into the environment.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Waste codes/waste designations according to EWC/AVV**

Waste code product	Waste name
160507 *	discarded inorganic chemicals consisting of or containing hazardous substances

**Appropriate disposal / Product**

In accordance with regulations for special waste, must be taken to a special waste disposal.  
 Undiluted product rests: take to local special waste collecting point.

**Appropriate disposal / Package**

Non-contaminated packages may be recycled.  
 Handle contaminated packages in the same way as the substance itself.

**Remark**

Partially emptied packaging must be taken to point of sale or to a special waste disposal. Dispose of empty containers as urban waste.

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**\* SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1 UN number or ID number</b>	UN 3077	UN 3077	UN 3077
<b>14.2 UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Silver)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Silver)	Environmentally hazardous substance, solid, n.o.s. (Silver)
<b>14.3 Transport hazard class(es)</b>	9	9	9
<b>14.4 Packing group</b>	III	III	III
<b>14.5 Environmental hazards</b>	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS

**14.6 Special precautions for user**

No data available

**14.7 Maritime transport in bulk according to IMO instruments**

No data available

**All transport carriers**

Additional marking for environmentally hazardous (fish and tree) required.

**Land transport (ADR/RID)**

UN number or ID number UN 3077  
 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Silver)  
 Transport hazard class(es) 9  
 Hazard label(s) 9  
 Classification code M7  
 Packing group III  
 Environmental hazards ENVIRONMENTALLY HAZARDOUS  
 Limited quantity (LQ) 5 kg  
 Special provisions 274, 335, 375, 601  
 Tunnel restriction code -

**Remark**

The product is not subject of the regulations ADR / RID in packaging < 5 L / < 5 kg in accordance with Special Provision 375.

**Sea transport (IMDG)**

UN number or ID number UN 3077  
 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Silver)  
 Transport hazard class(es) 9  
 Packing group III  
 Environmental hazards ENVIRONMENTALLY HAZARDOUS  
 Limited quantity (LQ) 5 kg

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Marine pollutant No  
EmS F-A, S-F

**Remark**

The product is not subject of the regulations IMDG in packaging < 5 L / < 5 kg in accordance with section 2.10.2.7 IMDG.

**Air transport (ICAO-TI / IATA-DGR)**

UN number or ID number UN 3077  
UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (Silver)  
Transport hazard class(es) 9  
Packing group III  
Environmental hazards ENVIRONMENTALLY HAZARDOUS

**Remark**

The product is not subject of the IATA regulations in packaging < 5 L / < 5 kg in accordance with Special Provision A197.

**\* SECTION 15: Regulatory information**

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

**Other regulations (EU)**

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC**

VOC content, ready-to-use condition 0 g/L  
VOC content, delivery state 0 %  
VOC-value 0 g/L

**15.2 Chemical Safety Assessment**

**\* National regulations**

Chemical safety assessments for substances in this mixture were not carried out.

**\* SECTION 16: Other information**

**\* Indication of changes**

\* Data changed compared with the previous version

**Additional information**

National and local regulations concerning chemicals shall be observed.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

**Relevant H- and EUH-phrases (Number and full text)**

H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

Safety Data Sheet according to Regulation (EC) No.  
1907/2006 (REACH)

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