

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

### 1.1. Product identifier

**Name of product** Micropur Tabletten MC 1T

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

#### Identified uses

#### Sector of uses [SU]

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

#### Product categories [PC]

disinfectants

PC8 - Biocidal products (e.g. Disinfectants, pest control)

#### Recommended intended purpose(s)

Water disinfection

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer/distributor

Katadyn Produkte AG  
Pfäffikerstrasse 37, CH-8310 Kempthal  
Phone +41 44 839 21 11

#### Advice

This number is only available at office times.  
Phone +41 44 839 21 11  
E-mail (competent person):  
info@katadyn.ch

### 1.4. Emergency telephone number

#### Emergency advice

Swiss toxicological Information Center  
Phone 145 / +41 44 251 51 51

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to 67/548/EEC or 1999/45/EC

N; R50/53

#### R-phrases

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Additional hints

The preparation is classified as hazardous according Directive 1999/45/EC.

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

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

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Aquatic Acute 1	H400	
Aquatic Chronic 1	H410	

**Hazard statements for environmental hazards**

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

**Additional hints**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.  
This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

**2.2. Label elements**

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



GHS09

**Signal word**

Warning

**Hazard statements for environmental hazards**

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**

**General**

P102 Keep out of reach of children.

**Prevention**

P273 Avoid release to the environment.

**Response**

P391 Collect spillage.

**Disposal**

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

**Hazardous ingredients for labeling**

sodium nitrate, Silver

**2.3. Other hazards**

**Information pertaining to special dangers for human and environment**

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

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.  
Do not discharge into the drains or bodies of water.

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## SECTION 3: Composition/ information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

#### Hazardous ingredients

CAS No	EC No	Name	[%]	Classification according to 67/548/EEC
7440-22-4	231-131-3	Silver	0,25	--
7631-99-4	231-554-3	sodium nitrate	0,2	Xn R22; O R8

CAS No	EC No	Name	[%]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
7440-22-4	231-131-3	Silver	0,25	
7631-99-4	231-554-3	sodium nitrate	0,2	Ox. Sol. 3, H272 / Acute Tox. 4, H302

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated soaked clothing immediately.

#### In case of inhalation

Remove the casualty into fresh air and keep him immobile.

In the event of symptoms refer for medical treatment.

#### In case of skin contact

In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

#### In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

#### In case of ingestion

If swallowed seek medical advice immediately and show the doctor packing or label.

Rinse out mouth thoroughly with water.

Give plenty of water to drink in small sips.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

No information available.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Product does not burn, fire-extinguishing activities according to surrounding.

Alcohol-resistant foam

Dry powder

Carbon dioxide

**Unsuitable extinguishing media**

Full water jet

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

no

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

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

**Additional information**

Collect contaminated firefighting water separately, must not be discharged into the drains.

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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 protective clothing.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**6.3. Methods and material for containment and cleaning up**

Avoid dust formation.

Moisten, take up mechanically and send for disposal.

Send in suitable containers for recovery or disposal.

**Additional Information**

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

Informations for disposal see chapter 13.

**6.4. Reference to other sections**

No information available.

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**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Avoid contact with skin and eyes.

Do not breathe dust.

Avoid the formation and deposition of dust.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

**General protective measures**

Avoid contact with eyes and skin

Do not inhale dust.

**Hygiene measures**

At work do not eat, drink and smoke.

Brush soiled clothing.

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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 in closed original container.

##### **Advice on storage compatibility**

Do not store together with food.

##### **Further information on storage conditions**

Protect from atmospheric moisture and water

Keep container dry, tightly closed and store at cool and aired place.

**Storage group** 11

#### **7.3. Specific end use(s)**

No information available.

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

#### **8.1. Control parameters**

#### **8.2. Exposure controls**

##### **Respiratory protection**

If ventilation insufficient, wear respiratory protection.

Particle-filtering half mask, filter P3

##### **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.

##### **Eye protection**

No special measures necessary if used correctly.

##### **Other protection measures**

Light protective clothing.

##### **Appropriate engineering controls**

Avoid the formation and deposition of dust.

Provide suitable extraction at the processing machines.

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### **SECTION 9: Physical and chemical properties**

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

##### **Appearance**

tablet

##### **Colour**

white

##### **Odour**

odourless

##### **Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not determined				
<b>boiling point</b>	1440 °C				
<b>melting point</b>	801 °C				
<b>Flash point</b>	not applicable				
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not applicable				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	not applicable				
<b>Self ignition temperature</b>	not applicable				
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	not applicable				
<b>Relative density</b>	1,2 g/cm <sup>3</sup>	20 °C			
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>					soluble
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity</b>	not determined				

**Oxidising properties**

No information available.

**Explosive properties**

The product is not explosiv.

**9.2. Other information**

No information available.

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

No information available.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

No decomposition if used as directed.

### 10.5. Incompatible materials

#### Materials to avoid

Reactions with strong acids.

Reactions with strong oxidising agents.

### 10.6. Hazardous decomposition products

Stable under normal conditions.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	> 2000 mg/kg	rat		
<b>Irritability skin</b>	non-irritant			
<b>Irritability eye</b>	non-irritant			
<b>Skin sensitization</b>	non-sensitizing			

#### Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
<b>Mutagenicity</b>	No data available.			
<b>Reproduction-Toxicity</b>	No data available.			
<b>Carcinogenicity</b>	No data available.			

#### Additional information

In the case of appropriate handling and intended use no healthwise unfavorable effects of the product are well-known.

No toxicological data available.

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## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological effects

	Value	Species	Method	Validation
<b>Fish</b>	No data available			
<b>Daphnia</b>	No data available			
<b>Algae</b>	No data available			

### 12.2. Persistence and degradability

**Biological degradability** No data available

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

#### General regulation

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 leakage of product into the environment.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste code No.

16 05 07\*

#### Name of waste

discarded inorganic chemicals consisting of or containing dangerous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

#### Recommendations for the 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.

#### Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

#### General information

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



## SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
<b>14.1. UN number</b>	3077	3077	3077
<b>14.2. UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (sodium nitrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O. S. (sodium nitrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (sodium nitrate)
<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>	Yes	Yes	Yes

### 14.6. Special precautions for user

No information available.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

### Land and inland navigation transport ADR/RID

Hazard label(s) 9

tunnel restriction code E

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

### Marine transport IMDG

MARINE POLLUTANT

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/IATA-DGR

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

### Transport/further information

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

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

#### Water hazard class

2

hazardous to waters, self-classification

### 15.2. Chemical Safety Assessment

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

## **SECTION 16: Other information**

### **Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

### **Further information**

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

### **Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)**

R 22 Harmful if swallowed.

R 8 Contact with combustible material may cause fire.

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.