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

Product identifier

Name of product Micropur Tabletten MC 1T

Manufacturer/distributor
Katadyn Produkte AG
Pfäffikerstrasse 37, CH-8310 Kemptthal
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

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

Identified uses

Sector of uses [SU]
SU21 - Private households (= general public).

Product categories [PC]
disinfectants
PC8 - Biocides (e.g. disinfectants and parasiticide

Recommended intended purpose(s)
Water disinfection

2. Hazards identification

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.

Labelling according to 67/548/EEC or 1999/45/EC

Remarks for labelling
The product is classified and labelled in accordance with EC directives/the relevant national laws.

N Dangerous for the environment

R-phrases

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

S-phrases

2	Keep out of the reach of children.
29	Do not empty into drains.
56	Dispose of this material and its container to hazardous or special waste collection point.

Hazardous ingredients for labeling
silver chloride

Special rules for supplemental label elements for certain mixtures
Harmful when used incorrect.

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.

3. Composition/information on ingredients

Hazardous ingredients

CAS No	EC No	Name	[%]	Classification according to 67/548/EEC
7631-99-4	231-554-3	sodium nitrate	< 0.25	Xn R22; O R8
7783-90-6	232-033-3	silver chloride	< 0.5	

CAS No	EC No	Name	[%]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
7631-99-4	231-554-3	sodium nitrate	< 0.25	Ox. Sol. 3, H272 / Acute Tox. 4, H302
7783-90-6	232-033-3	silver chloride	< 0.5	

4. First aid measures

General information
Remove contaminated soaked clothing immediately.

In case of inhalation
Remove the casualty into fresh air and keep him immobile.
If intensive inhalation of dust seek medical treatment immediately.
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 thoroughly with plenty of water and seek medical advice.

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.

5. Firefighting measures

Suitable extinguishing media
Product does not burn, fire-extinguishing activities according to surrounding.
Alcohol-resistant foam
Dry powder
Carbon dioxide

Extinguishing media which must not be used for safety reasons
Full water jet

Special hazards arising from the substance or mixture
no

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.

6. Accidental release measures

Personal precautions
Avoid contact with skin and eyes.
Do not breathe dust.
Avoid dust formation.
Use personal protective clothing.

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

Methods for 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.

7. Handling and storage

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.

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 10-13

8. Exposure controls/personal protection

Additional advice on system design
Avoid the formation and deposition of dust.
Provide suitable extraction at the processing machines.

Additional advice
Components with specific control parameters:
Not exist.

Respiratory protection
If ventilation insufficient, wear respiratory protection.
Particle-filtering half mask, filter P3

Hand protection
Permeationslevel 6
Penetrationslevel acc. to EN374:3
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
safety goggles

Skin protection
Light protective clothing.

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.
Keep away from food and drink.
Wash hands before breaks and after work.

9. Physical and chemical properties

Form	**Colour**	**Odour**
tablet	white	odourless

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	not determined				

	Value	Temperature	at	Method	Remark
boiling point	1440 °C				
melting point	801 °C				
Flash point	not applicable				
Flammable solid	not applicable				
Ignition temperature	not applicable				
Autoignition	not applicable				
Vapour pressure	not applicable				
Density	1,2 g/cm3	20 °C			
Solubility in water					soluble
Partition coefficient (log pOW)	not determined				

Explosive properties
The product is not explosiv.

10. Stability and reactivity

Conditions to avoid
No decomposition if used as directed.

Materials to avoid
Reactions with strong acids.
Reactions with strong oxidising agents.

Hazardous decomposition products
Stable under normal conditions.

11. Toxicological information

Acute toxicity/Irritability/Sensitization

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

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity	No data available.			
Reproduction-Toxicity	No data available.			
Carcinogenicity	No data available.			

Additional information
In the case of appropiate handling and intended use no healthwise unfavorable effects of the product are well-known.
No toxical dates available.

12. Ecological information

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.
Do not allow uncontrolled leakage of product into the environment.

13. Disposal considerations

Waste code No.	**Name of waste**
16 05 07*	discarded inorganic chemicals consisting of or containing dangerous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC 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 fot reuse.
Packaging that cannot be cleaned should be disposed of like the product.

14. Transport information

Land and inland navigation transport ADR/RID
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (silver chloride), 9, III, (E)
Marine transport IMDG
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (silver chloride), 9, III
Air transport ICAO/IATA-DGR
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (silver chloride), 9, III
Transport/further information
Additional marking for environmentally hazardous (fish and tree) required.

15. Regulatory information

National regulations

Water hazard class 2

hazardous to waters, self-classification

Chemical Safety Assessment

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

16. Other information

Recommendend 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.