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

1.1. Product identifier

Name of product Micropur Forte MF 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 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

1.4. Emergency telephone number

Emergency advice Swiss toxicological Information Center

Phone 145 / +41 44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Xi; R36 N; R51/53

R-phrases

36 Irritating to eyes.

51/53 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 Hazard Classification procedure

categories Statements

Eye Irrit. 2 H319 Aquatic Chronic 2 H411

Hazard statements for health hazards

H319 Causes serious eye irritation.

Hazard statements for environmental hazards

H411 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]





GHS07

GHS09

Signal word

Warning

Hazard statements for health hazards

H319 Causes serious eye irritation.

Hazard statements for environmental hazards

H411 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

P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

P338 if present and easy to do. Continue rinsing.

Disposal

P501 Contents / container hand over to an approved waste disposal facility.

Hazardous ingredients for labeling

adipic-acid, troclosene sodium, dihydrate

2.3. Other hazards

Adverse human health effects and symptoms

With moisture, product develops an alkaline pH-value and can cause irritation.

Inhalation of dust may cause irritation of the respiratory system.

Information pertaining to special dangers for human and environment

Bei Kontakt mit sauren Produkten können gefährliche Chlorgase entstehen.

Avoid contact with eyes.

Contact with acids releases toxic gas.

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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
124-04-9	204-673-3	adipic-acid	25 - 50	Xi R36
497-19-8	207-838-8	sodium carbonate	20 - 25	Xi R36
2893-78-9	220-767-7	troclosene sodium	< 10	E R2; O R8; Xn R22; Xi R36/37; R31; N R50-53
7440-22-4	231-131-3	Silver	< 0,2	
7631-99-4	231-554-3	sodium nitrate	< 0,3	Xn R22; O R8
CAS No	EC No	Name	[%]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
124-04-9	204-673-3	adipic-acid	25 - 50	Eye Irrit. 2, H319
497-19-8	207-838-8	sodium carbonate	20 - 25	Eye Irrit. 2, H319
2893-78-9	220-767-7	troclosene sodium	< 10	Ox. Sol. 2, H272 / Acute Tox. 4, H302 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
7440-22-4	231-131-3	Silver	< 0,2	·
7631-99-4	231-554-3	sodium nitrate	< 0,3	Ox. Sol. 3, H272 / Acute Tox. 4, H302

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose it safely.

Symptoms of poisoning may not occur for many hours, therefore keep under medical supervision for at least 48 hours.

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

Do not induce vomiting.

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

Rinse out mouth thoroughly with water.

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

No information available.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media Suitable extinguishing media

Alcohol-resistant foam
Dry powder
Carbon dioxide
Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible. Hydrogen chloride (HCI) Hydrogen cyanide (HCN) Chlorine (Cl2)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply. Wear full protective clothing.

Do not inhale explosion and/or combustion gases.

Additional information

Cool endangered containers with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures For non-emergency personnel

Avoid contact with skin and eyes.

Ensure adequate ventilation.

Keep people away and stay on the upwind side.

Use personal protective clothing.

6.2. Environmental precautions

Inform responsible authority with penetration in waters or drains. Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Ensure adequate ventilation.

After taking up the material dispose according to regulation.

Take up mechanically and send for disposal.

Additional Information

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

Informations for disposal see chapter 13.

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6.4. Reference to other sections

No information available.

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.

Keep container tightly closed.

Avoid the formation and deposition of dust.

Use only in thoroughly ventilated areas.

General protective measures

Avoid contact with eyes and skin

Take the usual precautions when handling chemicals.

Ensure adequate ventilation.

Hygiene measures

Remove soiled or soaked clothing immediately.

Keep away from food and drink.

Wash hands before breaks and after work.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

The product is not combustible.

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 with acids.

Do not store together with food.

Further information on storage conditions

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

Storage group 11

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Respiratory protection

In case of dust formation wear micro dust mask.

Hand protection

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: butyle rubber, 0,7mm, 480 Min.

Please observe the glove manufacturer's instructions on permeability and ruptur times as well as the specific workplace conditions.

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Eye protection

No special measures necessary if used correctly.

Other protection measures

No special measures necessary if used correctly.

Appropriate engineering controls

Avoid the formation and deposition of dust.

No further data, see item 7.

Avoid contact with skin and eyes.

Care for thorough room ventilation, if necessary provide local air ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Colour Odour

tablet white typical, pungent

Odour threshold not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	5,97	20 °C	100 g/l		emulsion in water
boiling point	not applicable				
melting point	133 °C				
Flash point	not applicable				
Vapourisation rate	not determined				
Flammable (solid)	not applicable				
Flammability (gas)	not determined				
Ignition temperature	No data available.				
Self ignition temperature					The product ist not self-igniting.
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	1,66 g/cm3	20 °C			
Bulk density	0,85 kg/m3				

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	Value	Temperature	at	Method	Remark
Vapour density	not determined				
Solubility in water					easy solubl
Solubility/other	not determined				
Partition coefficient n- octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				
Solids content	100 %				
Oxidising properties No information available.					
Explosive properties The product is not explosiv.					
9.2. Other information No information available.					

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

Evolution of chlorine under influence of acids.

10.6. Hazardous decomposition products

In case of fire formation of dangerous gases possible.

Hydrogen chloride (HCI)

Chlorine

Chlorine compounds

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	ca. 1400 mg/kg	rat		
LD50 acute dermal	> 2000 mg/kg	rabbit		
Irritability skin	Irritant to skin and mucous membranes.			
Irritability eye	irritant			
Skin sensitization	non-sensitizing			

Additional information

Toxical dates refer to base substance.

The declarations of toxicology refer to main component.

The product has not been tested. The information is derived from the properties of the individual components.

The product was classified on the basis of the calculation procedure of the preparation directive (1999/45/EC).

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 0,13 mg/l (96 h)	rainbow trout		
Daphnia	EC50 0,28 mg/l (48 h)	Daphnia magna		

12.2. Persistence and degradability

No information 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.

Risk of harmfull effect to microorganisms in sewage processing plants.

Because of damage to water organism do not fill in presurge.

Ecological dates are not available.

Do not allow uncontrolled leakage of product into the environment.

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Harmfull to fishes and bacteria.

The information to ecology refers to active substance.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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 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. Collect waste separated in suitable, labeled and lockable containers.

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.

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
14.1. UN number	3077	3077	3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O. S. (troclosene sodium)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium)
14.3. Transport hazard class(es)	9	9	9
14.4. Packing group	III	III	III
14.5. Environmental hazards	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

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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

hazardous to waters, self-classification

15.2. Chemical Safety Assessment

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

2

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 2 Risk of explosion by shock, friction, fire or other sources of ignition.

R 22 Harmful if swallowed.

R 31 Contact with acids liberates toxic gas.

R 36 Irritating to eyes.

R 36/37 Irritating to eyes and respiratory system.

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

R 8 Contact with combustible material may cause fire.

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.