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

### 1.1. Product identifier

Name of product Micropur Tank Care Fresh

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

#### Identified uses

#### Sector of uses [SU]

SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

#### Product categories [PC]

Additive

### 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 Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Eye Irrit. 2	H319	
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#### Hazard statements for health hazards

H319 Causes serious eye irritation.

#### Additional hints

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.  
The substance is classified as hazardous according to Regulation (EC) 1272/2008 [GHS].

### 2.2. Label elements

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



GHS07

#### Signal word

Warning

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**Hazard statements for health hazards**

H319 Causes serious eye irritation.

**Precautionary Statements**

**Prevention**

P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/attention.

**Hazardous ingredients for labeling**

citric-acid

**2.3. Other hazards**

**Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

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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 Regulation (EC) No 1272/2008 [CLP/GHS]
77-92-9	201-069-1	citric-acid	100	Eye Irrit. 2, H319

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**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Remove contaminated soaked clothing immediately and dispose it safely.

**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 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.  
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

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.

In the event of fire the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply ( isolated ).

**Additional information**

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

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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.

Ensure adequate ventilation.

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**

Send in suitable containers for recovery or disposal.

Flush away residues with water.

After taking up the material dispose according to regulation.

Take up mechanically and send for disposal.

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#### 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.

Use personal protective clothing.

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.

Care for suitable extraction / ventilation at processing machines.

##### General protective measures

Avoid contact with eyes and skin

Do not inhale dust.

##### Hygiene measures

At work do not eat, drink and smoke.

Keep away from food and drink.

Wash hands before breaks and after work.

##### Advice on protection against fire and explosion

In case of special conditions product may dust-explode.

Avoid sedimentation of dust.

Avoid formation of dust.

#### 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 alkalis.

Do not store together with food.

Do not store together with oxidizing agents.

##### Further information on storage conditions

Store only at temperature of 30°C maximum (=86°F).

Protect from atmospheric moisture and water

Protect from heat and direct solar radiation.

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

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

No information available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### DNEL-/PNEC-values

##### PNEC

CAS No	Substance name	Value	Code	Remark
77-92-9	citric-acid	440 mg/l	PNEC aquatic, freshwater	
		7,52 mg/kg	PNEC sediment, freshwater	

#### Additional advice

Components with specific control parameters:  
Not exist.

#### 8.2. Exposure controls

##### Respiratory protection

Particle-filtering half mask, filter P2  
In case of dust formation wear micro dust mask.

##### Hand protection

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]:  
Vitonkautschuk, Butylkautschuk, Level 6, 480 Min.  
Please observe the glove manufacturer's instructions on permeability and ruptur times as well as the specific workplace conditions.  
chemical-resistant gloves

##### Eye protection

tightly fitting goggles

##### Other protection measures

protective overalls

##### Appropriate engineering controls

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

crystalline

#### Colour

white

#### Odour

odourless

#### Odour threshold

not determined

#### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value</b>	1,8	25 °C	5 Gew-%		
<b>not determined</b>	not determined				
<b>melting point</b>	153 °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 determined				

	Value	Temperature	at	Method	Remark
<b>Self ignition temperature</b>	not determined				
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	not determined				
<b>Relative density</b>	1,665 g/cm <sup>3</sup>	20 °C			
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>	800 g/l	20 °C			
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	-1,72				
<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.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No hazardous reactions known.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid**

The product is not a dust explosion risk as supplied however the build-up of fine dust can lead to a risk of dust explosions.

In case of addition of water warming up.

**10.5. Incompatible materials**

**Substances to avoid**

Reactions with oxidising agents.  
 Corrosive to metals.  
 Reactions with alkalies.

**10.6. Hazardous decomposition products**

In case of fire formation of dangerous gases possible.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	11700 mg/kg	rat	OECD 401	
<b>LD50 acute dermal</b>	> 2000 mg/kg	rat		
<b>Skin irritation</b>	low irritant effect - not necessary to label	rabbit		
<b>Eye irritation</b>	Irritant by contact with eyes.	rabbit eye		
<b>Skin sensitization</b>	non-sensitizing	Guinea pig		

**Subacute Toxicity - Carcinogenicity**

	Value	Species	Method	Validation
<b>Mutagenicity</b>				No experimental information on genotoxicity in vivo available.
<b>Carcinogenicity</b>				No indications of carcinogenic effects are available from long-term trials.

**Additional information**

The declarations of toxicology refer to main component.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicological effects**

	Value	Species	Method	Validation
<b>Fish</b>	LC50 440 mg/l (48 h)	Leuciscus idus		
<b>Daphnia</b>	LC50 1535 mg/l (24 h)	Daphnia magna		

	Value	Species	Method	Validation
<b>Algae</b>	IC50 425 mg/l (168 d)	Scenedesmus quadricauda		

<b>Bacteria</b>	> 10000 mg/l (16 h)	Pseudomonas putida		
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### 12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
<b>Biological degradability</b>	97 % (28 d) The product is biodegradable.			

#### Degradability

The product is readily biodegradable to OECD criteria.

<b>Biological eliminability</b>	98 % (2 d)			
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### 12.3. Bioaccumulative potential

Because of its consistency the product cannot be dispersed in the environment. Adverse ecological effects are therefore unlikely on the basis of current knowledge.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

### 12.6. Other adverse effects

#### Additional ecological information

	Value	Method	Remark
<b>COD</b>	728 mg/g		
<b>BOD</b>	526 mg/g		

#### General regulation

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into the ground water or aquatic environment.

The breakdown properties of the product have not been tested. The information on these is given on the basis of details in the literature.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste code No.

16 03 03\*

#### Name of waste

inorganic wastes containing hazardous 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.

The waste disposal has to be proved.



**Recommendations for packaging**

Uncontaminated packaging may be taken for recycling.  
 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.

**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
<b>14.1. UN number</b>	-	-	-
<b>14.2. UN proper shipping name</b>	-	-	-
<b>14.3. Transport hazard class(es)</b>	-	-	-
<b>14.4. Packing group</b>	-	-	-
<b>14.5. Environmental hazards</b>	-	-	-

**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**

No dangerous goods as defined by these transport regulations.

**Marine transport IMDG**

No dangerous goods as defined by these transport regulations.

**Air transport ICAO/IATA-DGR**

No dangerous goods as defined by these transport regulations.

**SECTION 15: Regulatory information**

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

**National regulations**

**Water hazard class** 1 slightly hazardous to waters, self-classification

**15.2. Chemical Safety Assessment**

For this substance a chemical safety assessment is not required.

## **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.

H319 Causes serious eye irritation.