

**Safety data sheet**  
**According to regulation (EC) No. 1907/2006**  
Version 1.1

Revised on: 03.09.2021

Chain cleaner

### 1.1 Product identifier

**Chain cleaner**

**Trade name:** T100C

UFI: 8300-P0FS-T000-GEWP

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

**General use:**

Bicycle chain cleaning

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

**Manufacturer/Supplier:**

MONZ Handelsgesellschaft International mbH & Co. KG

Schöndorfer Straße 60-62

54292 Trier

Germany

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E-mail: [A.Born@monz-international.de](mailto:A.Born@monz-international.de)

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**Informing department:** Alexander Born, Phone: +49 65120067324,

E-mail: [A.Born@monz-international.de](mailto:A.Born@monz-international.de)

### 1.4 Emergency number:

Phone: +49 65120067324 (Available during regular office hours.)

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### 2.1 Classification of the mixture

**Classification according to Regulation (EC) No 1272/2008**

Skin irritant (Skin Irrit. 2), H315

Eye irritant (Eye Irrit. 2), H319

### 2.2 Labelling elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



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**Signal word** Warning**Hazard warnings** H315: Causes skin irritation.  
H319: Causes serious eye irritation.**Safety instructions** P264: Wash hands thoroughly after handling.  
P280: Wear protective gloves/eye protection. (commercial)  
P302+352: IF ON SKIN: Wash with plenty of water/soap.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
P332+313: If skin irritation occurs: Get medical advice/attention.  
P337+P313: If eye irritation persists: Get medical advice/attention.  
P362+364: Take off contaminated clothing and wash it before reuse.**Cleaner, 648/2004/EC, contains:** < 5% nonionic surfactants  
< 5% anionic surfactants**2.3 Other hazards**

As a matter of principle, chemicals pose special dangers. They should therefore only be handled with the necessary care by appropriately trained personnel.

**Results of the PBT and vPvB assessment****PBT:** Not PBT.**vPvB:** Not vPvB.**3.1 Chemical descriptions of the substance:** Not applicable.**3.2 Chemical descriptions of the mixture:**

Multicomponent mixture:

Substance	CAS-No.	EC-No.	CLP / Classification	Concentr. [%]
2-Butoxyethanol	111-76-2	203-905-0	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332	10 - 11
Ethylenediaminetetraacetic acid	60-00-4	200-449-4	Eye Irrit. 2, H319	5 - 6
Alcohols, C9-11, ethoxylated	68439-46-3	932-771-2	Eye Dam. 1, H318	1
Sodium silicate pentahydrate	10213-79-3	600-279-4	Skin Corr. 1B, H314 STOT SE 3, H335	1

In aqueous solution

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### 4.1 Descriptions of the first aid measures

**General information in the event of an accident:**

If possible, leave the scene of the accident.  
Show this safety data sheet to the doctor.  
Symptoms may be delayed.  
Remove clothing contaminated with product.

**After inhalation:**

If breathing is difficult, have oxygen inhaled. Seek medical treatment.

**After skin contact:**

Wash off with plenty of soap and water.  
After massive or prolonged skin contact:  
Repeated contact may cause chapped and cracked skin.  
Consult a doctor if symptoms occur.

**After eye contact:**

Rinse opened eye for 15 minutes under running water.  
Remove contact lenses.

**After ingestion:**

Rinse mouth thoroughly with water. Do not induce vomiting.  
Danger of aspiration!  
Call a doctor immediately.

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

- Skin irritation and serious eye irritation after direct contact.

**Hazards**

- No other hazards known.

### 4.3 Advice on immediate medical help or special treatment

No further relevant information available.

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## Firefighting measures

### 5.1 Extinguishing agent

**Suitable extinguishing agents:**

Foam, dry extinguishing agent or CO<sub>2</sub>

**Unsuitable extinguishing agents:**

Water in full jet

### 5.2 Special hazards arising from the product

Thermal decomposition or combustion products may contain the following substances:  
Irritant gases or vapours

### 5.3 Advice for firefighters

**Special protective equipment:**

Wear a self-contained positive pressure breathing apparatus (SCBA) and suitable protective clothing.

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### 6.1 Personal precautions, protective equipment and emergency procedures to be followed

Wear protective clothing, gloves, eye and face protection. For personal protection see section 8.

### 6.2 Environmental protection measures

Release into the environment must be avoided. Spills or uncontrolled discharges into watercourses must be reported immediately to the national environmental authority or other competent authority.

### 6.3 Methods and material for retention and cleaning

Small release: Flush away spillage with plenty of water. Major release: Enclose and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable disposal containers and seal securely.

### 6.4 References to other sections

For information on safe handling, see section 7.

For information on personal protective equipment, see section 8.

For information on disposal, see section 13.

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## Handling and storage

### 7.1 Protective measures for safe handling

Wear protective equipment: gloves, eye and face protection.

### Information on fire and explosion protection:

- not required, non-combustible

### 7.2 Conditions for safe storage taking into account incompatibilities

#### Storage:

#### Requirements for storage rooms and containers:

Store in a cool, well-ventilated place.

#### Information on storage in one place:

Store separately from food.

#### Recommended storage temperature:

15-25 °C

### 7.3 Specific end uses

Bicycle chain cleaning

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### Exposure/Personal Protection

#### 8.1 Parameters to be monitored

#### Components with limit values that require monitoring at the workplace:

Ingredient	CAS-Nr.	Value	Parameters to be monitored	Basis
2-Butoxyethanol	111-76-2	TWA	20 ppm 98 mg/m <sup>3</sup>	Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
		Indicates the possibility that larger amounts of the substance may be absorbed through the skin. Indicative		
		STEL	50 ppm 246 mg/m <sup>3</sup>	Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
		Indicates the possibility that larger amounts of the substance may be absorbed through the skin. Indicative		
		AGW	10 ppm 49 mg/m <sup>3</sup>	TRGS 900 - Occupational exposure limits
		Skin resorptive There is no need to fear a risk of foetal damage if the occupational exposure limit value and the biological limit value are complied with.		

#### Biological occupational exposure limit

Ingredient	CAS-No.	Parameter	Value	Sample material	Basis
2-Butoxyethanol	111-76-2	Butoxyacetic acid	150 mg/g Creatinine	Urine	TRGS 903 - Biological limit values
		In case of long-term exposure: after several previous shifts. End of exposure, or end of shift			
		Butoxyacetic acid	100 mg/l	Urine	TRGS 903 - Biological limit values
		in case of long-term exposure: after several previous shifts			

#### Derived no effect level (DNEL)

Scope of application	Exposure route	Impact on health	Value
Worker DNEL, long-term	dermal	Systemic effects	
Worker DNEL, long-term	inhalative	Systemic effects	98 mg/m <sup>3</sup>
Consumer DNEL, Long-term	dermal	Systemic effects	
Consumer DNEL, Long-term	oral	Systemic effects	
Consumer DNEL, acute	inhalative	Local effects	123 mg/m <sup>3</sup>
Consumer DNEL, Long-term	inhalative	Systemic effects	49 mg/m <sup>3</sup>

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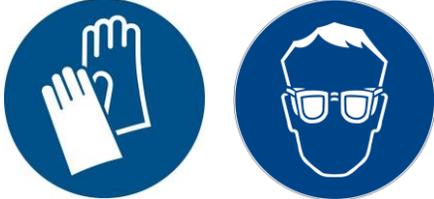
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**Additional notes:**

The lists and information valid at the time of compilation served as a basis.

**8. Occupational exposure controls****Personal protective equipment:****General protection and hygiene measures:**

Do not eat, drink or smoke while working.  
Preventive skin protection with skin protection ointment.  
Wash hands before breaks and at the end of work.  
Avoid contact with eyes and skin.  
Ensure adequate ventilation.

**Individual protection measures**

The design of body protection equipment must be selected specifically for the workplace, depending on the concentration and quantity of hazardous substances. The chemical resistance of the protection should be clarified with their suppliers.

**Respiratory protection:**

Not required

**Hand protection for industrial handling:**

Protective gloves

**Glove material**

Polyvinyl chloride (PVC)

The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer.

**Eye protection:**

Use safety goggles or face shield.

**Body protection:**

Wear protective clothing to prevent skin contact.

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

<b>Physical state:</b>	liquid
<b>Colour:</b>	pink/transparent
<b>Odour:</b>	characteristic
<b>Odour threshold:</b>	Not determined.
<b>pH value at 20 °C:</b>	11 – 13
<b>Melting point/Melting range:</b>	No data available.

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<b>Boiling point/Boiling range:</b>	No data available.
<b>Flash point:</b>	-
<b>Flammability (solid, gaseous):</b>	No information available.
<b>Ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Autoflammability:</b>	No.
<b>Explosion hazard:</b>	Not explosive.
<b>Explosion limits:</b>	Not applicable.
<b>Oxidising properties:</b>	No data available.
<b>Vapour pressure at 20 °C:</b>	-
<b>Density at 20 °C:</b>	-
<b>Relative density:</b>	No data available.
<b>Vapour density:</b>	No data available.
<b>Evaporation rate:</b>	No data available.
<b>Solubility in / Miscibility with Water:</b>	Soluble in water.
<b>n-octanol/water:</b>	< 0.5
<b>Viscosity:</b>	No data available.
<b>Dynamic at 25 °C:</b>	No data available.
<b>Kinematic:</b>	No data available.

**9.2 Other information** No further relevant information available.

## 10 Stability and reactivity

### 10.1 Reactivity

No hazardous reactions are to be expected when used as directed. Material is stable at room temperature and room air pressure.

### 10.2 Chemical stability

#### Thermal decomposition / conditions to be avoided:

No decomposition if stored and handled as intended.

### 10.3 Possibility of hazardous reactions

**10.4 Conditions to be avoided** No information.

**10.5 Incompatible materials** Oxidising agent.

**10.6 Hazardous decomposition products** In case of fire: see chap. 5

## 11 Toxicological information

### 11.1 Information on toxicological effects

No toxicological studies have been carried out with the product.

Skin irritation and serious eye irritation from direct exposure.

### 11.2 Further information:

The product must be handled with the care required for chemicals. When used as intended no further measures are required if the product is used as intended.

#### Additional toxicological information:

After ingestion:

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Gastrointestinal disturbances

Vomiting

Aspiration hazard

After absorption:

Dizziness

Headache

Nausea

After absorption of large amounts:

Damage to liver and kidney.

## 12 Environmental information

### 12.1 Toxicity

No aquatic toxicity studies have been conducted with the product.

Data on 2-butoxyethanol:

Toxicity to fish

static test LC<sub>50</sub> - Oncorhynchus mykiss (Rainbow trout)  
1.474 mg/l - 96 h  
(OECD Test guideline 203)

Toxicity to  
daphnia and  
other aquatic  
invertebrates

static test EC<sub>50</sub> - Daphnia magna (Large water flea)  
1.550 mg/l - 48 h  
(OECD- Test guideline 202)

Toxicity to algae

static test EC<sub>50</sub> - Pseudokirchneriella subcapitata (Green algae)  
1.840 mg/l - 72 h  
(OECD- Test guideline 201)

Toxicity to bacteria

static test - Pseudomonas putida  
700 mg/l - 16 h

### 12.2 Persistence and degradability

no information on the product.

Data on 2-butoxyethanol:

Biodegradability

aerobic - Exposure time 28 d  
Result: 90,4% - Easily biodegradable.  
(OECD- Test guideline 301 B)

Ratio BOD/ThBOD

88%

### 12.3 Bioaccumulative potential

Non-accumulating.

### 12.4 Mobility in soil

No further relevant information available.

**Ecotoxic effects:** Hazardous to water**Remark:** Do not allow large quantities to reach ground water, water bodies or sewage system.

### 12.5 Results of the PBT and vPvB assessment

**PBT:** Not PBT.**vPvB:** Not vPvB.

### 12.6 Other harmful effects

No further relevant information available.



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Pay attention to employment restrictions for expectant and nursing mothers.

**Water hazard class:** WHC 2

### 15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out.

The information is based on the current state of our knowledge, but does not constitute a guarantee of product characteristics and does not establish a contractual legal relationship.

### Data sheet issuing department:

#### Contact person:

Alexander Born

Phone: +49 65120067324

E-mail: [A.Born@monz-international.de](mailto:A.Born@monz-international.de)

### 16 Other information

**Wording of the hazard statements referred to in sections 2 to 15** (all H-phrases of the mixture and constituents)

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

### Text of all safety instructions applicable to the mixture

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/eye protection. (commercial)

P302+352: IF ON SKIN: Wash with plenty of water/soap.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P332+313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists get medical advice/attention.

P362+364: Take off contaminated clothing and wash it before reuse.

### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

LD50\*: Lethal dose, 50 percent (Not relevant for classification)

LC50\*: Lethal concentration, 50 percent (Not relevant for classification)

TCL0\*: Lowest toxic concentration (Not relevant for classification)