

\* Tribin OS

Date revised: 24.01.2024

# 8720010921

Version: 7 / GB

Master No. MA-216

Print date: 17.04.2024

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

### **1.1. Product identifier**

**Trade name**

Tribin OS

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

**Use of the substance/mixture**

Cleaning material/ Detergent

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

**Address/Manufacturer**

BÜFA Cleaning GmbH &amp; Co. KG

August-Hanken-Str. 30

26125 Oldenburg

Telephone no. +49 441 9317 0

Fax no. +49 441 9317 100

Information provided Department product safety / +49 441 9317 108

by / telephone

E-Mail sds-cleaning@buefa.de

### **1.4. Emergency telephone number**

Poison Information Center Goettingen: +49 551 19240

## **SECTION 2: Hazards identification \*\*\***

### **2.1. Classification of the substance or mixture**

**Classification (Regulation (EC) No. 1272/2008)**

Skin Corr. 1A H314

Eye Dam. 1 H318

Aquatic Chronic 3 H412

\*  
\*  
\*

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **2.2. Label elements**

**Labelling according to regulation (EC) No 1272/2008****Hazard pictograms****Signal word**

Danger

**Hazard statements \*\*\***

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements \*\*\***

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P273	Avoid release to the environment.
P280.2	Wear protective gloves/ eye/ face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains Potassium hydroxide; Sodium hypochlorite, solution; Sodium hydroxide

**Sensitising substances****Supplemental information \*\*\***

EUH031 Contact with acids liberates toxic gas.

**2.3. Other hazards**

\*\*\*

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**SECTION 3: Composition/information on ingredients \*\*\*****3.2. Mixtures****Hazardous ingredients \*\*\*****Sodium hydroxide**

CAS No.	1310-73-2
EINECS no.	215-185-5
Registration no.	01-2119457892-27-XXXX
Concentration	>= 10 < 25 %
Skin Corr. 1A	H314
Met. Corr. 1	H290

## Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	>= 0,5 < 2 %
Skin Corr. 1A	H314	>= 5 %
Skin Corr. 1B	H314	>= 2 < 5 %
Skin Irrit. 2	H315	>= 0,5 < 2 %

**Potassium hydroxide**

CAS No.	1310-58-3
EINECS no.	215-181-3
Registration no.	01-2119487136-33-XXXX
Concentration	>= 3 < 5 %
Acute Tox. 4	H302
Skin Corr. 1A	H314
Met. Corr. 1	H290

## Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	>= 0,5 < 2 %
Skin Corr. 1A	H314	>= 5 %
Skin Corr. 1B	H314	>= 2 < 5 %
Skin Irrit. 2	H315	>= 0,5 < 2 %

ATE oral 333 mg/kg

**Sodium hypochlorite, solution**

CAS No.	7681-52-9
EINECS no.	231-668-3

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Registration no.	01-2119488154-34-XXXX		
Concentration	>=	1	< 2,5 %
Skin Corr. 1B	H314		
Eye Dam. 1	H318		
Aquatic Acute 1	H400		
Aquatic Chronic 1	H410		

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1	H400	M = 10
Aquatic Chronic 1	H410	M = 1
	EUH031	>= 5 %

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

For explanation of abbreviations see section 16.

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **After inhalation**

Ensure supply of fresh air. Summon a doctor immediately.

#### **After skin contact**

Wash off immediately with soap and water.

#### **After eye contact**

In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution. Seek medical advice immediately.

#### **After ingestion**

Do not induce vomiting. Call in a physician immediately and show him the Safety Data Sheet.

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

There is no further relevant information available

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

There is no further relevant information available

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Carbon dioxide, Dry powder, Water spray jet, Alcohol-resistant foam, Extinguishing measures to suit surroundings

#### **Non suitable extinguishing media**

Full water jet

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

In case of combustion evolution of dangerous gases possible. In the event of fire the following can be released: Chlorine (Cl<sub>2</sub>)

### **5.3. Advice for firefighters**

Use self-contained breathing apparatus.  
Cool endangered containers with water spray jet.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Keep people away and stay on the upwind side. Use breathing apparatus if exposed to vapours/dust/aerosol. Use personal protective clothing. Avoid contact with skin, eyes and clothing.

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## 6.2. Environmental precautions

Do not allow to enter drains or waterways.

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

Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal".

## 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Containers in danger should be cooled with water.

## 7.2. Conditions for safe storage, including any incompatibilities

Keep only in original packaging. Provide ventilation of containers. Provide alkali-resistant floor.

Do not store together with: Acids, Reducing agents

Keep only in the original container in a cool, well ventilated place. Protect from heat and direct sunlight.

## 7.3. Specific end use(s)

No information available

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

### Exposure limit values

#### Potassium hydroxide

List EH40

Type WEL

Short term exposure limit 2 mg/m<sup>3</sup>

Maximum limit value; Skin resorption / sensibilisation: Pregnancy group: Status: 2005

#### Sodium hydroxide

List EH40

Type WEL

Short term exposure limit 2 mg/m<sup>3</sup>

## 8.2. Exposure controls

### General protective and hygiene measures

Observe the usual precautions for handling chemicals. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards. The following information on personal protective equipment (PPE) is to be understood as a suggestion. The selection of the necessary PPE must be considered by the employer depending on the activities to be carried out and the local conditions. If it is determined during the on-site risk assessment that there is no danger to the employee, there is no need to wear PPE or the scope of the PPE to be used can be adjusted accordingly.

### Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, Filter B

### Hand protection

Chemical resistant gloves

Appropriate Material nitrile

Material thickness > 0,4 mm

Breakthrough time > 480 min

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these

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gloves.

**Eye protection**

Tightly fitting safety glasses

**Body protection**

Alkali-resistant protective clothing

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	liquid			
<b>Colour</b>	yellowish			
<b>Odour</b>	Chlorine			
<b>Melting point</b>				
Remarks	not determined			
<b>Boiling point</b>				
Remarks	not determined			
<b>Flammability</b>				
evaluation	not determined			
<b>Explosion limits</b>				
Remarks	not determined			
<b>Flash point</b>				
Value	> 100			°C
<b>Ignition temperature</b>				
Remarks	not determined			
<b>Thermal decomposition</b>				
Remarks	Not relevant			
<b>pH value</b>				
Value	12	to	13	
Concentration/H <sub>2</sub> O	1	%		
<b>Viscosity</b>				
Value	10			s
Method	DIN 53211 4 mm			
<b>Solubility in other solvents</b>				
	not determined			
<b>Octanol/water partition coefficient (log Pow)</b>				
Remarks	Not relevant			
<b>Vapour pressure</b>				
Value	mbar			
<b>Density</b>				
Value	appr. 1,2			kg/l
<b>Vapour density</b>				
Remarks	not determined			
<b>Particle characteristics</b>				
Remarks	irrelevant (liquid)			
<b>9.2. Other information</b>				
<b>Odour threshold</b>				
Remarks	No data available			
<b>Solubility in water</b>				

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Remarks

miscible

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

### **10.2. Chemical stability**

The product is stable.

### **10.3. Possibility of hazardous reactions**

Reactions with water and acids.

### **10.4. Conditions to avoid**

Protect from heat and direct sunlight.

#### **Thermal decomposition**

Remarks

Not relevant

### **10.5. Incompatible materials**

Reactions with metals, with evolution of hydrogen. Strong exothermic reaction with acids. Reducing agents

### **10.6. Hazardous decomposition products**

Chlorine

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity**

ATE

8.325

mg/kg

Method

calculated value (Regulation (EC) No. 1272/2008)

Based on available data, the classification criteria are not met.

#### **Acute oral toxicity (Components)**

##### **Potassium hydroxide**

Reference substance

potassium hydroxide ...%

ATE

333

mg/kg

#### **Acute dermal toxicity**

Based on available data, the classification criteria are not met.

#### **Acute dermal toxicity (Components)**

No toxicological data are available.

#### **Acute inhalational toxicity**

Based on available data, the classification criteria are not met.

#### **Acute inhalative toxicity (Components)**

No toxicological data are available.

#### **Skin corrosion/irritation**

evaluation

corrosive

The classification criteria are met.

#### **Serious eye damage/irritation**

evaluation

corrosive

The classification criteria are met.

#### **Sensitization**

Based on available data, the classification criteria are not met.

#### **Sensitization (Components)**

Based on available data, the classification criteria are not met.

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**Mutagenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT)****Single exposure**

Based on available data, the classification criteria are not met.

**Repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity****Sodium hydroxide**

Reference substance	sodium hydroxide			
LC50	35	to	189	mg/l
Duration of exposure	96	h		

**Sodium hypochlorite, solution**

Reference substance	sodium hypochlorite, solution... % Cl active			
Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )			
LC50	0,06			mg/l
Duration of exposure	96	h		
Reference substance	sodium hypochlorite, solution... % Cl active			
Species	<i>Oncorhynchus kisutch</i>			
LC50	0,032			mg/l
Duration of exposure	96	h		

**Daphnia toxicity****Sodium hydroxide**

Reference substance	sodium hydroxide			
Species	<i>Ceriodaphnia spec</i>			
EC50	40,4			mg/l
Duration of exposure	48	h		

**Sodium hypochlorite, solution**

Reference substance	sodium hypochlorite, solution... % Cl active			
Species	<i>Daphnia magna</i>			
EC50	0,141			mg/l
Duration of exposure	48	h		
Method	OECD 202			

**Algae toxicity****Sodium hypochlorite, solution**

Reference substance	sodium hypochlorite, solution... % Cl active			
Species	<i>Pseudokirchneriella subcapitata</i>			
EC50	0,04			mg/l

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### Bacteria toxicity

#### Sodium hypochlorite, solution

Reference substance	sodium hypochlorite, solution... % Cl active		
Species	activated sludge		
EC50	>	3	mg/l
Duration of exposure		3	h

### 12.2. Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.Do not discharge product unmonitored into the environment.

### 12.3. Bioaccumulative potential

For this subsection there is no ecotoxicological data available on the product as such.

#### Octanol/water partition coefficient (log Pow)

Remarks Not relevant

### 12.4. Mobility in soil

For this subsection there is no ecotoxicological data available on the product as such.

### 12.5. Results of PBT and vPvB assessment

#### Results of PBT and vPvB assessment

The product contains no PBT substances. The product contains no vPvB substances.

### 12.6 Endocrine disrupting properties

#### Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

### 12.7. Other adverse effects

For this subsection there is no ecotoxicological data available on the product as such.

#### Behaviour in sewers [waste treatment plants]

The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

#### Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

## SECTION 14: Transport information



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	Land transport ADR/RID	Marine transport IMDG/GGVSee
14.1. UN number	3266	3266
14.2. UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide, Sodium hypochlorite, solution)	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide, Sodium hypochlorite, solution)
14.3. Transport hazard class(es)	8	8
14.4. Packing group	II	II
Label		
14.5. Environmental hazards	-	-
Limited Quantity	1 I	1 I
Transport category	2	
Tunnel restriction code	E	
Hazard id. no.	80	
EmS		F-A, S-B

### Information for all modes of transport

#### 14.6. Special precautions for user

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### Other information

#### 14.7 Maritime transport in bulk according to IMO instruments

Not relevant

## SECTION 15: Regulatory information \*\*\*

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

#### Ingredients (Regulation (EC) No 648/2004)

less than 5 %: \*\*\*

chlorine-based bleaching agents, polycarboxylates

#### Further ingredients

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

#### VOC

VOC (EU) 0 %

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**Other information \*\*\***

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

**15.2. Chemical safety assessment**

For this preparation a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Skin Corr. 1A	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Aquatic Chronic 3	H412	Calculation method

**Hazard statements listed in Chapter 2/3**

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**CLP categories listed in Chapter 2/3**

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B

**Abbreviations**

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route  
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 GGVSee: Gefahrgutverordnung See  
 IMDG: International Maritime Code for Dangerous Goods  
 CAS: Chemical Abstracts Service  
 EAK: Europäischer Abfallkatalog  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 VOC: Volatile Organic Compound  
 GefStoffV: Gefahrstoffverordnung  
 TA Luft: Technische Anleitung zur Reinhaltung der Luft  
 INCI: International Nomenclature of Cosmetic Ingredients  
 n.a.g.: nicht anders genannt  
 MAK: Maximale Arbeitsplatz-Konzentration  
 AGW: Arbeitsplatzgrenzwert  
 BGW: Biologischer Grenzwert  
 TRGS: Technische Regeln für Gefahrstoffe  
 OEL: Occupational exposure limit  
 SUVA: Schweizerische Unfallversicherungsanstalt  
 WEL: Workplace exposure limit  
 MAC: Maximale aanvaarde concentratie (Netherlands)  
 MEL: Maximum exposure limits  
 NOEL: No observable effect level  
 NOEC: No observable effect concentration  
 LD: Lethal dose  
 LC: Lethal concentration

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LLC: Lowest lethal concentration

LLC: Lowest lethal concentration

PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very persistent and very bioaccumulative

SVHC: Substances of very high concern

DNEL: Derived no effect level

DMEL: Derived minimal effect level

PNEC: Predicted no effect concentration

PEC: Predicted environmental concentration

GHS: Globally Harmonized System of classification and Labelling of Chemicals

REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

UN: United Nations

EG: Europäische Gemeinschaft

EWG: Europäische Wirtschaftsgemeinschaft

EU: European Union

HSNO: Hazardous Substances and New Organisms Act (New Zealand)

ATE: Acute Toxicity Estimate

STOT: Specific Target Organ Toxicity

IOELV: Indicative Occupational Exposure Limit Values

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.