

\* Tribin

Date revised: 13.09.2023

# 8720056221

Version: 7 / GB

Master No. MA-216

Print date: 07.05.2024

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

### **1.1. Product identifier**

**Trade name**

Tribin

### **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 Acute 1 H400

Aquatic Chronic 2 H411

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.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

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

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

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P304+P340 with water [or shower].  
 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

**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****potassium hydroxide ...%**

CAS No.	1310-58-3				
EINECS no.	215-181-3				
Registration no.	01-2119487136-33-XXXX				
Concentration	>= 5	<	10		%
Acute Tox. 4	H302				
Skin Corr. 1A	H314				

## 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... % Cl active**

CAS No.	7681-52-9				
EINECS no.	231-668-3				
Registration no.	01-2119488154-34-XXXX				
Concentration	>= 3	<	5		%
Skin Corr. 1B	H314				
Eye Dam. 1	H318				
Aquatic Acute 1	H400				
Aquatic Chronic 1	H410				

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

		EUH031	>= 5 %
	Aquatic Acute 1		M = 10
	Aquatic Chronic 1		M = 1
ATE	oral	1.100	mg/kg

Additional remarks:

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

**Silicic acid, sodium salt**

CAS No.	1344-09-8
EINECS no.	215-687-4

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Registration no.	01-2119448725-31-XXXX				
Concentration	>=	1	<	10	%
Skin Irrit. 2	H315				
Eye Irrit. 2	H319				
STOT SE 3	H335				

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, 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.

### **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**

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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>

### **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 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

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**Melting point**

Remarks not determined

**Boiling point**

Remarks not determined

**Flammability**

evaluation not determined

**Explosion limits**

Remarks not determined

**Flash point**

Value &gt; 100 °C

**Ignition temperature**

Remarks not determined

**Thermal decomposition**

Remarks Not relevant

**pH value**Value appr. 12  
Concentration/H<sub>2</sub>O 1 %**Viscosity**Value appr. 10 s  
Method DIN 53211 4 mm**Solubility in other solvents**

not determined

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

Remarks Not relevant

**Vapour pressure**

Remarks not determined

**Density**

Value appr. 1,19 kg/l

**Vapour density**

Remarks not determined

**Particle characteristics**

Remarks irrelevant (liquid)

**9.2. Other information****Odour threshold**

Remarks No data available

**Solubility in water**

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.

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**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	4.248	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

**sodium hypochlorite, solution... % Cl active****Silicic acid, sodium salt**

Reference substance	Silicic acid, sodium salt		
Species	rat		
LD50	3400	to	5150
Source	Literature value		

**Acute dermal toxicity**

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

**Acute dermal toxicity (Components)****sodium hypochlorite, solution... % Cl active****Silicic acid, sodium salt**

Reference substance	Silicic acid, sodium salt		
Species	rat		
LD50	5000		mg/kg

**Acute inhalational toxicity**

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

**Acute inhalative toxicity (Components)****sodium hypochlorite, solution... % Cl active****Silicic acid, sodium salt**

Reference substance	Silicic acid, sodium salt		
Species	rat		
LC50	2,06		mg/l
Duration of exposure	4	h	

**Skin corrosion/irritation**

evaluation	corrosive
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The classification criteria are met.

**Serious eye damage/irritation**

evaluation	corrosive
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The classification criteria are met.

**Sensitization**

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

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**Sensitization (Components)**

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

**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 hypochlorite, solution... % Cl active**

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

	sodium hypochlorite, solution... % Cl active	
Species	Oncorhynchus kisutch	
LC50	0,032	mg/l
Duration of exposure	96	h

**Silicic acid, sodium salt**

Reference substance	Silicic acid, sodium salt	
Species	zebra fish ( <i>Brachydanio rerio</i> )	
LC50	1108	mg/l
Duration of exposure	96	h

**Daphnia toxicity****sodium hypochlorite, solution... % Cl active**

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

**Silicic acid, sodium salt**

Reference substance	Silicic acid, sodium salt	
Species	Daphnia magna	
EC50	1700	mg/l
Duration of exposure	48	h

**Algae toxicity****sodium hypochlorite, solution... % Cl active**

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

**Bacteria toxicity****sodium hypochlorite, solution... % Cl active**

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
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**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	1814	1814
14.2. UN proper shipping name	POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es)	8	8
14.4. Packing group	II	II
Label		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS
Marine Pollutant		Marine Pollutant
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

#### Major-accident categories acc. 2012/18/EU \*\*\*

Category 41

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

5 % or over but less than 15 %:

phosphates

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**less than 5 %:**

chlorine-based bleaching agents

**VOC**

VOC (EU) 0 %

**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 Acute 1	H400	Calculation method
Aquatic Chronic 2	H411	Calculation method

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

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
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.
H411	Toxic 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 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

**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

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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  
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.