

* Orbin SEPT 10

Date revised: 17.07.2023

8720047521

Version: 3 / 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

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

Use of the substance/mixture

Disinfectant

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

BÜFA Cleaning GmbH & 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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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 *** sodium hydroxide; Amines, C12-C14-Alkyldimethyl-N-oxides; Sodium hypochlorite, solution

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 \geq 5 < 10 %
 Skin Corr. 1A H314
 Met. Corr. 1 H290

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

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

Sodium hypochlorite, solution

CAS No. 7681-52-9
 EINECS no. 231-668-3
 Registration no. 01-2119488154-34-XXXX
 Concentration \geq 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 \geq 5 %
 ATE oral 1.100 mg/kg

Additional remarks:

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

Amines, C12-C14-Alkyldimethyl-N-oxides

CAS No. 308062-28-4
 EINECS no. 931-292-6
 Registration no. 01-2119490061-47-XXXX
 Concentration \geq 1 < 2,5 %
 Eye Dam. 1 H318
 Aquatic Acute 1 H400

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Aquatic Chronic 2 H411
 Acute Tox. 4 H302
 Skin Irrit. 2 H315

ATE oral 1.064 mg/kg

2-phosphonobutane-1,2,4-tricarboxylic acid

CAS No. 37971-36-1
 EINECS no. 253-733-5
 Registration no. 01-2119436643-39-XXXX
 Concentration \geq 1 < 10 %
 Eye Irrit. 2 H319
 Met. Corr. 1 H290

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 (Cl₂)

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

sodium hydroxide

List	EH40		
Type	WEL		
Short term exposure limit	2	mg/m ³	

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

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Alkali-resistant protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	yellowish
Odour	Product specific
Melting point	
Remarks	not determined
Boiling point	
Remarks	not determined
Flammability	
evaluation	not determined
Explosion limits	
Remarks	not determined
Flash point	
Value	> 100 °C
Ignition temperature	
Remarks	not determined
Thermal decomposition	
Remarks	Not relevant
pH value	
Value	11,5 to 12,5
Concentration/H ₂ O	1 %
Solubility in other solvents	not determined
Octanol/water partition coefficient (log Pow)	
Remarks	Not relevant
Vapour pressure	
Remarks	not determined
Density	
Value	appr. 1,10 kg/l
Temperature	20 °C
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

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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 > 10.000 mg/kg
 Method calculated value (Regulation (EC) No. 1272/2008)
 Based on available data, the classification criteria are not met.

Acute oral toxicity (Components)

Amines, C12-C14-Alkyldimethyl-N-oxides

Reference substance Amines, C12-C14-Alkyldimethyl-N-oxides
 Species rat
 LD50 1064 mg/kg

Sodium hypochlorite, solution

Acute dermal toxicity

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

Acute dermal toxicity (Components)

Sodium hypochlorite, solution

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)

Sodium hypochlorite, solution

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.

Mutagenicity

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

Reproductive toxicity

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

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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	

Amines, C12-C14-Alkyldimethyl-N-oxides

Reference substance	Amines, C12-C14-Alkyldimethyl-N-oxides		
LC50	2,67		mg/l

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	

	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	

Amines, C12-C14-Alkyldimethyl-N-oxides

Reference substance	Amines, C12-C14-Alkyldimethyl-N-oxides		
Species	<i>Daphnia pulex</i>		
EC50	3,1		mg/l

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**Amines, C12-C14-Alkyldimethyl-N-oxides**

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Reference substance	Amines, C12-C14-Alkyldimethyl-N-oxides	
IC50	0,143	mg/l

Sodium hypochlorite, solution

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

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.

Biodegradability**Amines, C12-C14-Alkyldimethyl-N-oxides**

Reference substance	Amines, C12-C14-Alkyldimethyl-N-oxides
evaluation	biodegradable

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	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	 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)

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less than 5 %: ***

chlorine-based bleaching agents, non-ionic surfactants, phosphonates

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

H290	May be corrosive to metals.
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.
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
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
Skin Irrit. 2	Skin irritation, Category 2

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.