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Date revised: 14.08.2024

8740016526

Version: 1 / GB

Master No. MA-214

Print date: 29.10.2024

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)

Ox. Liq. 2 H272

Acute Tox. 4 H302

Skin Irrit. 2 H315

Eye Dam. 1 H318

STOT SE 3 H335

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

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

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H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

P261.3 Avoid breathing vapours.

P264.1 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280.2 Wear protective gloves/ eye/ face protection.

P301+P312+P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth.

P302+P352.1 IF ON SKIN: Wash with plenty of water.

P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.

P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P370+P378.4 In case of fire: Use water for extinction.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501.2 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

contains Hydrogen peroxide

2.3. Other hazards

Product is an oxidizing agent. Release of oxygen can cause oxidation. Danger of decomposition when exposed to heat. Danger of decomposition when in contact with incompatible substances, impurities, metals, alkalis, reducing agents. Danger of explosion with organic solvents.

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****Hydrogen peroxide**

CAS No.	7722-84-1
EINECS no.	231-765-0
Registration no.	01-2119485845-22-XXXX
Concentration	>= 35 < 50 %
Ox. Liq. 1	H271
Acute Tox. 4	H302
Acute Tox. 4	H332
Skin Corr. 1A	H314
Eye Dam. 1	H318
STOT SE 3	H335
Aquatic Chronic 3	H412

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

Aquatic Chronic 3	H412	>= 63 %
Skin Irrit. 2	H315	>= 35 < 50 %
Eye Dam. 1	H318	>= 8 < 50 %

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	STOT SE 3		>= 35 %
	Skin Corr. 1A	H314	>= 70 %
	Eye Irrit. 2	H319	>= 5 < 8 %
	Skin Corr. 1B	H314	>= 50 < 70 %
	Ox. Liq. 1	H271	>= 70 %
	Ox. Liq. 2	H272	>= 50 < 70 %
ATE	oral	431	mg/kg
ATE	inhalative, Dust/Mist	1,5	mg/l
ATE	inhalative, Vapors	11	mg/l
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

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

Remove contaminated clothing. After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

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. Rinse out mouth and give plenty of water to drink. Seek medical advice immediately.

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

Symptoms such as drowsiness, irritation of the esophagus, abdominal pain, foaming at the mouth, nausea, vomiting and diarrhea are possible. Corrosive/irritating liquids cause varying degrees of damage to the eye, depending on the intensity of the impact, Destruction and detachment of connective and corneal epithelium, corneal clouding, edema and ulceration, There is a risk of blindness! Irritation symptoms in the respiratory tract such as coughing, burning behind the breastbone, tears, burning in the eyes or nose. Necrosis formation in the area of the upper respiratory tract and shortness of breath are possible. There is a possibility of pulmonary edema formation!

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

Water spray jet, Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet, organic compounds

5.2. Special hazards arising from the substance or mixture

If a fire breaks out nearby, pressure build-up and danger of bursting are possible. Contact with combustible material may cause fire. In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Use self-contained breathing apparatus. Do not inhale explosion and/or combustion gases. Do not allow run-off from fire fighting to enter drains or water courses.
Cool endangered containers with water spray jet.

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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.

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). Do not return rest to the storage containers.

Keep away from sources of ignition - No smoking. Keep away from combustible material. Provide good ventilation of working area (local exhaust ventilation if necessary).

7.2. Conditions for safe storage, including any incompatibilities

Keep only in original packaging. Provide ventilation of containers.

Do not store with combustible materials. Do not store together with textiles. Do not store together with:

Reducing agents, Alkalis

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

Hydrogen peroxide

List EH40

Type WEL

Value 1.4 mg/m³ 1 ppm(V)

Short term exposure limit 2.8 mg/m³ 2 ppm(V)

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

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

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

Self-contained breathing apparatus. Short term: filter apparatus, special gas filter, NO-P3; Short term: filter apparatus, special gas filter, CO-P3

Hand protection

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Chemical resistant gloves

Appropriate Material	nitrile		
Material thickness	1	mm	
Breakthrough time	> 480	min	
Appropriate Material	Butyl rubber		
Material thickness	0,7	mm	
Breakthrough time	> 480		

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; Eye protection must comply with EN 166.

Body protection

Impermeable protective clothing; Personal protective clothing must comply with the relevant CEN standards.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid		
Colour	colourless		
Odour	odourless		
Melting point			
Remarks	not determined		
Freezing point			
Value	-33	°C	
Boiling point			
Value	108	°C	
Flammability			
evaluation	not determined		
Explosion limits			
Remarks	not determined		
Flash point			
Remarks	Not applicable		
Ignition temperature			
Remarks	not determined		
Self Accelerating Decomposition / Polymerization Temperature (SADT/SAPT)			
Value	65	°C	
Method	UN Test H.2		
Remarks	SADT		
pH value			
Value	2,1		
Viscosity			
kinematic			
Value	0,68	mm ² /s	
Temperature	40	°C	
dynamic			
Value	1,12	mPa.s	
Temperature	20	°C	

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Solubility in other solvents

not determined

Octanol/water partition coefficient (log Pow)

log Pow	-1,57	
Temperature	20	°C
Method	QSAR	

Vapour pressure

Value	31,99	hPa
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Density

Value	1,13	kg/l
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Vapour density

Remarks	not determined
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Particle characteristics

Remarks	Not relevant
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9.2. Other information**Odour threshold**

Remarks	No data available
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Solubility in water

Remarks	miscible
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Explosive properties

The product is not explosive, but the formation of explosive vapour/air mixtures is possible.

Oxidising properties

evaluation	oxidizing
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Surface tension

Value	63,36	mN/m
Temperature	20	°C

SECTION 10: Stability and reactivity**10.1. Reactivity**

Oxidising agents, Risk of decomposition due to exposure to heat, contamination or contact with incompatible materials.

10.2. Chemical stability

Protect from heat/overheating. Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

Gaseous decomposition products cause pressure to build up in tightly sealed vessels. Reactions with impurities.

10.4. Conditions to avoid

Do not keep the container sealed. Protect from sun. Protect from warmth. Protect from heat/overheating.

10.5. Incompatible materials

Impurities, metals, metal salts, alkalis, hydrochloric acid, reducing agents, flammable substances, organic solvents

10.6. Hazardous decomposition products

Oxygen, Water

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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Acute oral toxicity

ATE < 2.000 mg/kg
 Method calculated value (Regulation (EC) No. 1272/2008)
 The classification criteria are met.

Acute oral toxicity (Components)**Hydrogen peroxide**

ATE 431 mg/kg

Acute dermal toxicity

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

Acute dermal toxicity (Components)**Hydrogen peroxide**

Species rabbit
 LD50 > 9200 mg/kg

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 irritant
 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.

Carcinogenicity

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

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

The classification criteria are met.
 evaluation May cause respiratory irritation.

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**

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Fish toxicity**Hydrogen peroxide**

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	16,4		mg/l
Duration of exposure	96	h	
Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	38,5		mg/l
Duration of exposure	7	d	

Daphnia toxicity**Hydrogen peroxide**

Species	Daphnia magna		
EC50	2,4		mg/l
Duration of exposure	48	h	

Algae toxicity**Hydrogen peroxide**

NOEC	0,63		mg/l
Duration of exposure	72	h	

Bacteria toxicity

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

12.2. Persistence and degradability

Do not discharge product unmonitored into the environment.

Ready degradability**Hydrogen peroxide****12.3. Bioaccumulative potential**

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

Octanol/water partition coefficient (log Pow)

log Pow	-1,57		
Temperature	20	°C	
Method	QSAR		

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 acid. 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

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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

	Land transport ADR/RID	Marine transport IMDG/GGVSee
14.1. UN number	2014	2014
14.2. UN proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
14.3. Transport hazard class(es)	5.1	5.1
Subsidiary risk	8, II	8, II
Label		
Limited Quantity	1 I	1 I
Transport category	2	
Tunnel restriction code	E	
Hazard id. no.	58	
EmS		F-H, S-Q

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 P8 OXIDISING LIQUIDS AND SOLIDS

Ingredients (Regulation (EC) No 648/2004)

30 % and more:

oxygen-based bleaching agents

VOC

VOC (EU) 0 %

Other information

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Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

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]:

Ox. Liq. 2	H272	On basis of test data
Acute Tox. 4	H302	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 3	H412	Calculation method

Hazard statements listed in Chapter 2/3

H271	May cause fire or explosion; strong oxidizer.
H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Ox. Liq. 1	Oxidising liquid, Category 1
Ox. Liq. 2	Oxidising liquid, Category 2
Skin Corr. 1A	Skin corrosion, Category 1A
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
 TRGS: Technische Regeln für Gefahrstoffe
 OEL: Occupational exposure limit
 SUVA: Schweizerische Unfallversicherungsanstalt
 WEL: Workplace exposure limit

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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
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.