* **Lizerna OX**

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

1.1. Product identifier

Trade name

Lizerna OX

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

Use of the substance/mixture

oxygen-based bleaching agents

1.3. Details of the supplier of the safety data sheet

BÜFA Reinigungssysteme
GmbH & Co. KG
August-Hanken-Str. 30
26125 Oldenburg

Telephone no.	+49 441 9317 0
Fax no.	+49 441 9317 100
Information provided by / telephone	Department product safety / +49 441 9317 108
E-mail address:	produktsicherheit-rs@buefa.de

1.4. Emergency telephone number

Giftzentrale Göttingen: +49 551 19 240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Eye Dam. 1	H318
STOT SE 3	H335
Aquatic Chronic 3	H412
Skin Irrit. 2	H315

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms

Signal word

Danger

Hazard statements

H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
H315	Causes skin irritation.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280.2	Wear protective gloves/eye/face protection.
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 Hydrogen peroxide solution

2.3. Other hazards

The product does not contain PBT/vPvB-substances

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients

Hydrogen peroxide solution

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	H332
Acute Tox. 4	H302
Skin Corr. 1A	H314
STOT SE 3	H335
Aquatic Chronic 3	H412

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

Water spray jet, Extinguishing measures to suit surroundings

Non suitable extinguishing media

Dry powder, Carbon dioxide, Full water jet

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.

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.

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. The product is not combustible, however it supports combustion.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container. 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

8.2. Exposure controls

General protective and hygiene measures

Observe the usual precautions for handling chemicals.

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, Filter B

Hand protection

Chemical resistant gloves

Appropriate Material	nitrile		
Breakthrough time		480	min

Eye protection

Tightly fitting safety glasses

Body protection

Impermeable protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	liquid
Colour	colourless
Odour	pungent
pH value	

Value		1,5	to	2,5	
Flash point					
Value	>	100			°C
Density					
Value	appr.	1,12			kg/l
Solubility in water					
Remarks	miscible				
Viscosity					
Value	appr.	11			s
Method	DIN 53211 4 mm				

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Protect from heat/overheating.

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.

10.5. Incompatible materials

Reactions with alkalies and metals. Reactions with combustible substances.

10.6. Hazardous decomposition products

Oxygen, Water

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE		3.400	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute oral toxicity

Hydrogen peroxide solution

Species	rat		
LD50		1190	mg/kg

Acute dermal toxicity

Hydrogen peroxide solution

Species	rabbit		
LD50	>	2000	mg/kg

Acute inhalational toxicity

ATE		31,4	mg/l
Administration/Form	Vapors		
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute inhalational toxicity

No toxicological data are available.

Skin corrosion/irritation

Corrosive action on the skin and mucous membrane.

Serious eye damage/irritation

evaluation	strongly corrosive

Risk of serious damage to eyes.

Sensitization

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

Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Specific Target Organ Toxicity (STOT)

evaluation May cause respiratory irritation.

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity

Hydrogen peroxide solution

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

Daphnia toxicity

Hydrogen peroxide solution

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

Algae toxicity

Hydrogen peroxide solution

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

Bacteria toxicity

No toxicological data are available.

12.2. Persistence and degradability

Do not discharge product unmonitored into the environment.

Hydrogen peroxide solution

12.3. Bioaccumulative potential

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

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

The product does not contain PBT/vPvB-substances

12.6. 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 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

14.1. UN number

UN 2014

14.2. UN proper shipping name

HYDROGEN PEROXIDE, AQUEOUS SOLUTION

14.3. Transport hazard class(es)

Class	5.1(8)

14.4. Packing group

Packing group	II
Tunnel restriction code	E

Marine transport IMDG/GGVSee

14.1. UN number

UN 2014

14.2. UN proper shipping name

HYDROGEN PEROXIDE, AQUEOUS SOLUTION

14.3. Transport hazard class(es)

Class	5.1
Subsidiary risk	8

14.4. Packing group

Packing group	II
EmS	F-H, S-Q

SECTION 15: Regulatory information

Ingredients (Regulation (EC) No 648/2004)

30 % and more:

oxygen-based bleaching agents

VOC

VOC (EU)	0	%

Other information

The product does not contain substances of very high concern (SVHC).

15.2. Chemical safety assessment

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

SECTION 16: Other information

Hazard statements listed in Chapter 3

H271	May cause fire or explosion; strong oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and 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 3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Ox. Liq. 1	Oxidising liquid, Category 1
Skin Corr. 1A	Skin corrosion, Category 1A
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Abbreviations

PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very persistent and very bioaccumulative

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.