SAFETY DATA SHEET

according to Regulation No. 1907/2006 of the European Parliament and of the Council, as subsequently amended

POWER Oxy

Date of issue: **30. 09. 2024** Version: **1.0**

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

1.1. Product identifier

Product Name

POWER Oxy

UFI code

UFI: ASU0-801C-F002-F5H3

Product code

None

Mixture description

A mixture of chemicals.

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

Identified uses

Bleaching additive based on hydrogen peroxide, which is intended for bleaching laundry at temperatures of 70°C and higher.

Professional use.

Uses advised against

Not known. It is recommended to use it only for the intended use. Other uses may expose users to unpredictable risks.

1.3. Details of the supplier of the safety data sheet

CORMEN s.r.o.
Věchnov 73
593 01
Czech Republic
telephone: +420 566 550 961
Fax: +420 566 551 822
e-mail address for a competent person responsible for the SDS: info@cormen.cz

1.4. Emergency telephone number

112 (General emergency phone).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture **is classified as hazardous** according to regulation 1272/2008/EC.

Classification according to 1272/2008/EC

Ox. Liq. 3; H272
Acute Tox. 4; H302
Eye Dam. 1; H318

Full text of classifications and H-phrases: see section 16.

The most important adverse physical, human health and environmental effects

May intensify fire; oxidiser. Harmful if swallowed. Causes serious eye damage.

2.2. Label elements

Hazard pictograms

Signal word

Danger

Substances of the mixture to be placed on the label

Contains Hydrogen peroxide.

Hazard statements

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H318	Causes serious eye damage.

Precautionary statements

P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
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/doctor.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. **Dispose of the cleaned packaging without any residual product content in the sorted waste.**

Supplemental hazard information

Mandatory additional information is not required according to CLP regulation.

The product contains a substance that is a precursor to explosives. The acquisition, importation, possession or use of this product by the general public is restricted by Regulation 2019/1148/EC. All suspicious transactions and significant disappearances and thefts must be reported to the appropriate national contact point.

Composition according to regulation 648/2004/EC on detergents: ≥ 30 % oxygen-based bleaching agents, < 5 % phosphonates.

2.3. Other hazards

Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH regulation. Mixture does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

3.2.1. Substances of a mixture classified as hazardous

Identification of substance		Content wt. %	Classification according to 1272/2008/EC
Hydrogen peroxide			
CAS Number	7722-84-1	30 - < 35	Ox. Liq. 1; H271 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Acute Tox. 4; H332 STOT SE 3; H335
EC Number	231-765-0		
Index Number	008-003-00-9		
Registration Number	01-2119485845-22-XXXX		

The substance has specific concentration limits:

Ox. Liq. 1; H271	C ≥ 70 %
Ox. Liq. 2; H272	50 % ≤ C < 70 %
Skin Corr. 1A; H314	C ≥ 70 %
Skin Corr. 1B; H314	50 % ≤ C < 70 %
Skin Irrit. 2; H315	35 % ≤ C < 50 %
Eye Dam. 1; H318	8 % ≤ C < 50 %
Eye Irrit. 2; H319	5 % ≤ C < 8 %
STOT SE 3; H335	C ≥ 35 %

Full text of classifications and H-phrases: see section 16.

SECTION 4: First aid measures

In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing. Protect yourself during rescue work.

4.1. Description of first aid measures

Inhalation

Interrupt the exposure, move the person to the fresh air. In case of persistent nausea, seek medical advice.

Skin contact

Remove contaminated clothing, shoes, and wash affected skin thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. If the problem persists, seek medical advice.

Eye contact

Rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. Seek medical advice.

Ingestion

Rinse your mouth and then drink plenty of water. Do not induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical advice.

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

Are not known.

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

Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Small fire:

Carbon dioxide CO_2, dry extinguishing agent, sand or earth, alcohol-resistant foam.

Extensive fire:

Fragmented water streams (water mist), alcohol-resistant foam.

Unsuitable extinguishing media

Solid streams of water may be ineffective.

5.2. Special hazards arising from the substance or mixture

In case of fire extinguishing prevent leakage of water and rest of product into drains. Collect them separately and dispose of safely in accordance with current legislation and applicable local regulations.

In case of fires, hazardous combustion gases are formed: carbon oxides and products of incomplete combustion.

5.3. Advice for firefighters

Stop further leakage of product if possible. Spilled product, which does not burn, cover with sand or foam. Move containers and barrels away from the fire to a safe place, if possible. Cool all affected containers down with flooding quantities of water. If the fire can´t be extinguished - evacuate the premises.

In case of fire, wear suitable respiratory protective equipment and fire-fighting suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes, use suitable protective equipment and clothing, see Section 8. Ensure adequate ventilation. Avoid formation of vapour and aerosol. At the point of leakage, prevent the movement of unauthorized persons.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. If this cannot be avoided, inform the competent authorities (police and firefighters) immediately.

6.3. Methods and material for containment and cleaning up

According to the amount of spilled liquid, drain away the substance (large spillage) or in case of small spillage, absorb it with suitable absorbent (vermiculite, dry sand), put into labelled closed containers and dispose of them accordingly to Section 13. Flush residues with water and collect it for waste disposal. Do not use solvents or dispersants unless instructed by an expert or government authority.

If container is damaged, remove the content to the new undamaged container and label it properly again.

6.4. Reference to other sections

Refer also to the provisions of sections 7, 8 and 13 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Personal protection see. Section 8. Ensure good ventilation to prevent formation of vapour and aerosol.

Smoking, eating and drinking should be prohibited at the place of use. Keep safety regulations for handling chemicals. Take off contaminated clothing and protective equipment before entering the dining area. Do not use dirty clothing. After work wash yourself carefully with warm water and soap, take a shower. Use protective cream.

7.2. Conditions for safe storage, including any incompatibilities

Store in original, tightly closed containers, in a dry, cool and well-ventilated place at room temperature.

Protect from frost.

Do not store together with incompatible materials (see subsection 10.5), food, drink and feed.

7.3. Specific end use(s)

See subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure limit value

Not determined.

8.1.2. Biological limit values

Not determined in EU.

8.1.3. DNEL and PNEC values

Hydrogen peroxide	CAS: 7722-84-1
DNEL - not available	
PNEC - not available	

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Use only in well-ventilated areas.

Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.

8.2.2. Individual protection measures, such as personal protective equipment

Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream. Do not soiled protective equipment to wash, do not use solvents.

Eye/face protection

Wear safety glasses or face shield (EN 166, EN 149+A1).

Skin protection - hand protection

Wear protective gloves (EN 374-1, EN 374-2).

Recommended gloves material:

nitrile rubber, breakthrough time: 480 min., glove thickness: 0.11 mm

The selection of the glove material on consideration of the breakthrough time, permeability, degradation and next relevant factors; other chemicals that may come into contact, physical requirements (cut and puncture protection, dexterity, thermal protection), possible body reactions to the glove material and the glove supplier's instructions and specifications. In case of repeated use of gloves, clean and keep them in a well-ventilated place before taking off.

Skin protection - other

Suitable protective working clothing and protective footwear.

Respiratory protection

Not necessary in case of compliance concentration limits (if they were exceeded, use respiratory protection). In the event of an accident or a fire use self-contained breathing apparatus.

Thermal hazards

In normal use, it is not necessary to use protective equipment to be worn for materials that represent a thermal hazard.

8.2.3. Environmental exposure controls

Uncontrolled release of the mixture into environment is to be avoided. Keep the emission limits according to national legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Mixture

Physical state	Liquid.
Colour	Colourless.
Odour	Not determined.
Melting point/freezing point	Not determined.
Boiling point or initial boiling point and boiling range	Not determined.
Flammability	Not determined.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	Not determined.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined, the mixture does not contain self-reactive substances or organic peroxides or other substances which may decompose.
pH	4 - 5.

Kinematic viscosity	Not determined, the mixture does not contain a substance classified as aspiration toxic, or the sum of the concentrations of substances classified as aspiration toxic is less than 10 wt. %.
Solubility	Miscible with water.
Partition coefficient n-octanol/water (log value)	Does not apply to mixture.
Vapour pressure	Not determined.
Density and/or relative density	Not determined.
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.
Hydrogen peroxide	CAS: 7722-84-1
Physical state	Liquid.
Colour	Colourless.
Odour	Odourless.
Melting point/freezing point	-0.43 °C (literature).
Boiling point or initial boiling point and boiling range	150.2 °C (literature).
Flammability	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
Lower explosion limit	Not determined.
Upper explosion limit	Not determined.
Flash point	Not determined, it is an inorganic substance.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined, it is not a self-reactive substance or an organic peroxide.
pH	2 (49.6 wt.% solution, 21 °C, literature). 5.4 (0.5 wt.% solution, 22 °C, literature).
Kinematic viscosity	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
Solubility	100 000 mg/l (20 °C, pH = 7, literature).
Partition coefficient n-octanol/water (log value)	Not determined, it is an inorganic substance.
Vapour pressure	Not determined.
Density and/or relative density	D_4^{-20} = 1.71 (solid, literature).
Relative vapour density	Not determined.
Particle characteristics	Does not apply to liquid.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Mixture

Explosives
Data for the mixture are not available. The mixture does not contain substances classified as explosives or oxidising, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.
Flammable gases
It is not gas.
Aerosols
It is not aerosol.
Oxidising gases
It is not gas.
Gases under pressure
It is not gas.
Flammable liquids
Data for the mixture are not available. The mixture does not contain substances classified as flammable liquids or the concentration of substance(s) is lower than the limit for inclusion in Section 3.
Flammable solids
It is not solid.
Self-reactive substances and mixtures
Data for the mixture are not available. The mixture does not contain substances classified as self-reactive substances or explosives or organic peroxides or oxidising, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.
Pyrophoric liquids
Data for the mixture are not available. The mixture does not contain substances classified as pyrophoric liquids or the concentration of substance(s) is lower than the limit for inclusion in Section 3.
Pyrophoric solids
It is not solid.
Self-heating substances and mixtures
Data for the mixture are not available. The mixture does not contain substances classified as self-heating or pyrophoric substances or the concentration of substance(s) is lower than the limit for inclusion in Section 3.
Substances and mixtures, which emit flammable gases in contact with water
Data for the mixture are not available. The mixture does not contain substances classified as substances, which emit flammable gases in contact with water or the concentration of substance(s) is lower than the limit for inclusion in Section 3.
Oxidising liquids
Data for the mixture are not available. The mixture is classified as a category 3 oxidizing liquid, based on hydrogen peroxide concentration limits.
Oxidizing solids

It is not solid.

Organic peroxides

Data for the mixture are not available.

The mixture does not contain substances classified as organic peroxides or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Corrosive to metals

Data for the mixture are not available.

The mixture does not contain substances classified as corrosive to metals or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Desensitised explosives

Data for the mixture are not available.

The mixture does not contain substances classified as explosives or desensitised explosives, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Hydrogen peroxide CAS: 7722-84-1

Explosives

87 wt.% hydrogen peroxide solution does not meet the criteria for classification as an explosive (EU method A.14).

Flammable gases

It is not gas.

Aerosols

It is not aerosol.

Oxidising gases

It is not gas.

Gases under pressure

It is not gas.

Flammable liquids

Data for the substance are not available.

The substance is not classified as a flammable liquid, it is an inorganic substance.

Flammable solids

It is not solid.

Self-reactive substances and mixtures

Data for the substance are not available.

The substance is not classified as self-reactive.

Pyrophoric liquids

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

Pyrophoric solids

It is not solid.

Self-heating substances and mixtures

Data for the substance are not available.

The substance is not classified as self-heating.

Substances and mixtures, which emit flammable gases in contact with water

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is produced in an aqueous solution.

The substance is soluble in water and forms a stable mixture with it.

Oxidising liquids

The substance is classified as an oxidizing liquid of category 1.

Mean pressure rise time for a 1:1 mixture with cellulose = 23 ms (70 wt.% aqueous solution, UN Manual of Tests and Criteria: Test O.2).

Mean pressure rise time for a 1:1 mixture with cellulose = 908 ms (50 wt.% aqueous solution, UN Manual of Tests and Criteria: Test O.2).

Mean pressure rise time for a 1:1 mixture with cellulose = 1,516 ms (47.3 wt.% aqueous solution, UN Manual of Tests and Criteria: Test O.2).

Mean pressure rise time for a 1:1 mixture with cellulose = 2,336 ms (45 wt.% aqueous solution, UN Manual of Tests and Criteria: Test O.2).

Mean pressure rise time for a 1:1 mixture with cellulose = 3,272 ms (42.5 wt.% aqueous solution, UN Manual of Tests and Criteria: Test O.2).

Mean pressure rise time for a 1:1 mixture with cellulose = 4,552 ms (40 wt.% aqueous solution, UN Manual of Tests and Criteria: Test O.2).

Mean pressure rise time for a 1:1 mixture with cellulose = 5,528 ms (37.6 wt.% aqueous solution, UN Manual of Tests and Criteria: Test O.2).

Mean pressure rise time for a 1:1 mixture with cellulose = 8,176 ms (34.4 wt.% aqueous solution, UN Manual of Tests and Criteria: Test O.2).

Oxidizing solids

It is not solid.

Organic peroxides

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

Corrosive to metals

Data for the substance are not available.

The substance is not classified as corrosive to metal.

Desensitised explosives

87 wt.% hydrogen peroxide solution does not meet the criteria for classification as an explosive (EU method A.14).

9.2.2. Other safety characteristics

Mechanical sensitivity	Not determined, it is not an explosive substance.
Self-accelerating polymerisation temperature	Not determined, it is not a polymerising substance.
Formation of explosible dust/air mixtures	Not determined, it is not a dust.
Acid/alkaline reserve	Not determined, pH is in the range 4 - 10.
Evaporation rate	Not determined.

Miscibility	Not determined.
Conductivity	Not determined.
Corrosiveness	Not determined.
Gas group	Not determined, it is not gas.
Redox potential	Not determined.
Radical formation potential	Not determined.
Photocatalytic properties	Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

It decomposes on its own. During the reaction, oxygen is released, which promotes combustion. The rate of decomposition is supported by temperature and dirt content. Gas evolution during decomposition can cause pressure build-up in closed systems. Amount of gas evolved during decomposition: 1 cm^3 of product (3% solution) releases 10 cm3 of O_2. The product has oxidizing effects.

10.2. Chemical stability

The product contains stabilizer(s). With the prescribed storage method, due to natural decomposition, the concentration is lost by a maximum of 1% per year.

10.3. Possibility of hazardous reactions

Dangerous reaction with reducing agents (exothermic reaction).

10.4. Conditions to avoid

Protect from high temperatures, sunlight. Isolate from incompatible materials. The rate of decomposition is supported by temperature and dirt content.

10.5. Incompatible materials

Avoid contact with alkali metals, alkaline earth metals, powdered metals (Cu, Cr, Mn, Pt, Ag + salts), reducing agents, bases, organic materials. May have the following consequences: violent reaction, decomposition.

10.6. Hazardous decomposition products

During thermal decomposition, the following are released: oxygen (O_2), heat.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Mixture

Acute toxicity

The mixture is classified as Acute Tox. 4; H302.

Oral	Data for the mixture are not available. The mixture is classified in category 4 based on the LD50 value for 35% hydrogen peroxide.
Dermal	Data for the mixture are not available. The mixture does not contain relevant substances classified as an acute toxicity by dermal route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Inhalation	Data for the mixture are not available. The mixture is not classified according to the calculation using the additive formula. $ATE_{mixture}$ > 31 mg/l (vapour).
Skin corrosion/irritation	
Data for the mixture are not available. The mixture is not classified as skin irritant based on the general/specific concentration limits of substance(s).	
Serious eye damage/irritation	
Data for the mixture are not available. The mixture is classified as causes serious eye damage based on the general/specific concentration limits of substance(s).	
Respiratory or skin sensitisation	
Data for the mixture are not available. The mixture does not contain substances classified as sensitizing or the concentration of substance(s) is lower than the limit for inclusion in Section 3.	
Germ cell mutagenicity	
Data for the mixture are not available. The mixture does not contain substances classified as mutagenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3.	
Carcinogenicity	
Data for the mixture are not available. The mixture does not contain substances classified as carcinogenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3.	
Reproductive toxicity	
Data for the mixture are not available. The mixture does not contain substances classified as toxic for reproduction or the concentration of substance(s) is lower than the limit for inclusion in Section 3.	
STOT – single exposure	
Data for the mixture are not available. The mixture is not classified as toxic for specific target organs in a single exposure in category 3 according to the recommended concentration limits of substance(s).	
STOT – repeated exposure	
Data for the mixture are not available. The mixture does not contain substances classified as toxic for specific target organs in a repeated exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.	
Aspiration hazard	
Data for the mixture are not available. The mixture does not contain substances classified as aspiration hazard or the concentration of substance(s) is lower than the limit for inclusion in Section 3.	
Other information	
See section 2 and 4.	
Hydrogen peroxide	CAS: 7722-84-1

Acute toxicity	
Oral	The substance is classified in category 4. LD_{50} = 1 193 mg/kg (35% solution, rat, male, OECD 401). LD_{50} = 1 270 mg/kg (35% solution, rat, female, OECD 401). LD_{50} = 1 026 mg/kg (70% solution, rat, male, OECD 401). LD_{50} = 693.7 mg/kg (70% solution, rat, female, OECD 401).
Dermal	Based on available data, the classification criteria are not met. LD_{50} > 2 000 mg/kg (35% solution, rabbit, OECD 402).
Inhalation	The substance is classified in category 4 according to harmonized classification. LC_{50} > 170 mg/m^3 (50% solution, vapour, rat, 4 hrs., no death is observed, OECD 403). ATE = 11 mg/l (for calculation by additive formula, vapour).
Skin corrosion/irritation	
The substance is classified as skin corrosion in category 1A. PDII = 0.08 - not irritating (10% solution, fully reversible after 48 hours, 72 hours, rabbit, OECD 404). PDII = 1.6 - irritant (35% solution, fully reversible after 5 days, 14 d., rabbit). PDII = 3 - irritant (49.2% solution, fully reversible after 48 hours, 72 hours, rabbit, OECD 404). Scar tissue observed 14 days after exposure - corrosive category 1A (70% solution, exposure 3 minutes, rabbit, OECD 404). No dermal irritation was observed 7 days after exposure (50% solution, exposure 3 minutes, rabbit, OECD 404). Scar tissue observed 14 days after exposure - corrosive category 1B (50% solution, exposure 1 hour, rabbit, OECD 404).	
Serious eye damage/irritation	
The substance is classified as seriously damaging to the eyes. The substance is classified as eye irritant. Mean score of corneal opacity = 1.3 (fully reversible), iritis = 0.8 (not fully reversible after 21 days), conjunctival redness = 3 (fully reversible), conjunctival oedema = 1 (not fully reversible after 21 days) (rabbit, 72 hrs., OECD 405). Overall mean score = 0 (3% solution, rabbit, 72 h, OECD 405). Eye irritant - mean score of corneal opacity = 0, iritis = 0, conjunctival redness = 1.25 (fully reversible), conjunctival oedema = 0 (5% solution, rabbit, 72 hrs, OECD 405). Serious eye damage - mean score of corneal opacity = 2.75, iritis = 1, conjunctival redness = 3 (10% solution, rabbit, 72 hours, OECD 405).	
Respiratory or skin sensitisation	
Data for the substance are not available.	
Germ cell mutagenicity	
Based on available data, the classification criteria are not met. In vitro: Positive (OECD 473, OECD 476). In vivo: Negative (mouse, intraperitoneally, OECD 474).	
Carcinogenicity	
Data for the substance are not available.	

Reproductive toxicity

Data for the substance are not available.

STOT – single exposure

Data for the substance are not available.

The substance may cause respiratory irritation.

STOT – repeated exposure

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

NOEL = 100 ppm (35% solution, oral, mouse, 90 d., OECD 408).

NOAEL = 2.9 mg/m^3 (inhalation, rat, 28 d., OECD 412).

LOAEL = 14.6 mg/m^3 (inhalation, rat, 28 d., OECD 412).

Aspiration hazard

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm^2/s or less at 40 °C.

11.2. Information on other hazards

Mixture does not contain substance(s) meets meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet and given in the list (established in accordance with Article 59(1) for having endocrine disrupting properties of REACH regulation.

Mixture does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.There is no other relevant information on adverse health effects that is not required according to the classification criteria set out in CLP Regulation.

SECTION 12: Ecological information

12.1. Toxicity

Mixture

Data for the mixture are not available.

Acute aquatic toxicity

The mixture does not contain relevant substances classified as acute aquatic toxicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Chronic aquatic toxicity

The mixture does not contain relevant substances classified as a chronic aquatic toxicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

Hydrogen peroxide CAS: 7722-84-1

The substance is not classified as hazardous for the aquatic environment according to the harmonized classification.

Fish

LC_{50}, 96 hrs., Pimephales promelas: 16.4 mg/l (50% solution, mortality, literature).

NOEC, 96 hrs., Pimephales promelas: 5 mg/l (50% solution, behaviour, literature).

Crustaceans

EC_{50}, 48 hrs., Daphnia Pulex: 2.4 mg/l (50% solution, mortality, literature).
NOEC, 48 hrs., Daphnia Pulex: 1 mg/l (50% solution, mortality, literature).

Algae

EC_{50}, 72 hrs., Skeletonema costatum: 1.38 mg/l (50% solution, growth rate, literature).
NOEC, 72 hrs., Skeletonema costatum: 0.63 mg/l (50% solution, growth rate, literature).

12.2. Persistence and degradability

Mixture

Data for the mixture are not available.

Hydrogen peroxide CAS: 7722-84-1

Not determined, it is an inorganic substance.

12.3. Bioaccumulative potential

Mixture

Data for the mixture are not available.

Hydrogen peroxide CAS: 7722-84-1

Not determined, it is an inorganic substance.

12.4. Mobility in soil

Mixture

Data for the mixture are not available.

Hydrogen peroxide CAS: 7722-84-1

Not determined, it is an inorganic substance.

12.5. Results of PBT and vPvB assessment

Mixture does not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH Regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH Regulation.

12.6. Endocrine disrupting properties

The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH Regulation. Mixture does not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods of the substance or mixture and the contaminated packaging

Dispose according to the applicable European and local regulations (eg. in a hazardous waste incinerator). Do not empty unused product into drainage systems. Do not contaminate ponds or ditches with the product or used container. Hand over the residual amounts and solutions to a licensed disposal company.

Hand over the remaining quantities and unregenerate solutions to an authorized person (specialized company with authorization) or to the collection yard in the hazardous waste section according to the worker's instructions. Empty, cleaned packaging can be stored at a landfill of the appropriate category or **in the sorted waste.**

Possible waste code

16 09 03* - peroxides, for example hydrogen peroxide (mixture), 15 01 10* - packaging containing residues of or contaminated by hazardous substances (contaminated packaging), 15 01 02 - plastic packaging (clear packaging).

Physical/chemical properties that may affect waste treatment options

Oxidizing agent.

Special precautions recommended for waste management

Not known.

Waste legislation

Directive 2008/98/EC on waste and repealing certain Directives, as amended.

SECTION 14: Transport information

14.1. UN number or ID number

UN 2014.

14.2. UN proper shipping name

HYDROGEN PEROXIDE, AQUEOUS SOLUTION

14.3. Transport hazard class(es)

5.1 (8).

14.4. Packing group

II.

14.5. Environmental hazards

It is not dangerous for the environment during transport.

14.6. Special precautions for user

Not given.

14.7. Maritime transport in bulk according to IMO instruments

Not available.

14.8. Other information

Labeling according to ADR

Additional data for ADR/RID	
Classification code	OC1.
Labels	5.1+8.
Hazard identification code	58.
Tunnel restriction code	E (ADR), - (RID).
Limited quantities	1 l.
Excepted quantities	Maximum net quantity per inner packaging: 30 ml. Maximum net quantity per outer packaging: 500 ml.
Transport category	2.
Additional data for IMDG	
Emergency Schedules (EmS)	F-H,S-Q.

SECTION 15: Regulatory information

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

Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures, as amended (CLP)

Regulation No. 648/2004/EC on detergents, as amended

Regulation No. 2019/1148/EC on on the marketing and use of explosives precursors, as amended

15.2. Chemical safety assessment

Has not been carried out for mixture.

SECTION 16: Other information

Reason for the revision of the safety data sheet

First edition.

Key or legend to abbreviations and acronyms

Acute Tox. 4	Acute toxicity, cat. 4
Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2
Ox. Liq. 1	Oxidising liquid, cat. 1
Ox. Liq. 2	Oxidising liquid, cat. 2
Ox. Liq. 3	Oxidising liquid, cat. 3

Skin Corr. 1A	Skin corrosion, cat. 1A
Skin Corr. 1B	Skin corrosion, cat. 1B
Skin Irrit. 2	Skin irritation, cat. 2
STOT SE 3	Specific target organ toxicity - single exposure, cat. 3
ADR	Accord Dangereuses Route
CLP	Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures
DNEL	Derived No Effect Level
ICAO/IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent, bioaccumulative, toxic substance
PNEC	Predicted No Effect Concentration
REACH	Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
STOT	Specific target organ toxicity
vPvB	Very persistent and very bioaccumulative substance

Sources of key data used to compile the Safety Data Sheet

European legislation, manufacturer's safety data sheet, registration dossier of substances.

List of H- and P- phrases

H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
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/doctor.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. **Dispose of the cleaned packaging without any residual product content in the sorted waste.**

Training advice

According to SDS.

Other information

Classification according to data from the manufacturer. The mixture is classified using calculation methods according to Regulation CLP and tests. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.

The information in this SDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

The safety data sheet is created in accordance with Regulation No. 2020/878/EC. There is no additional information in accordance with the local and national legislation of the Member State in the European Union, in the safety data sheet.

The safety data sheet was created by company LACHEPRA s.r.o.