

According to Regulation (EC) No 1907/2006

PO 33®

Version number: 6.2
Issued: 2025-12-03
Replaces SDS: 2023-04-13



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

1.1. Product identifier

Trade name

PO 33®

UFI code

CG8S-0CNX-4217-0DJA

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

Relevant identified uses

Concentrated liquid bleach for professional users.

Not suitable for use in

All other uses are discouraged.

1.3. Details of the supplier of the safety data sheet

Supplier

KLEEN PURGATIS GmbH

Address

Dieselstraße 10
32120 Hiddenhausen
Germany

Telephone

+49 (0) 5223 9970-40

Email

info@kleen-purgatis.de

Web site

www.kleenpurgatis.de

Contact person

Regulatory Affairs

Email

info@kleen-purgatis.de

1.4. Emergency telephone number

+49 (0) 551 - 19240 (GIZ-Nord)

Available outside office hours

Yes

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Acute toxicity, oral, hazard category 4

Acute toxicity, inhalation, hazard category 4

Skin irritation, hazard category 2

Serious eye damage, hazard category 1

Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation

Hazard statements

H302 + H332, H315, H318, H335

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H302 + H332 Harmful if swallowed or if inhaled

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.

P280 Wear eye protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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

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.

More information

Hazard components for labeling: hydrogen peroxide

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2.3. Other hazards

PO 33 is a strong oxidising agent.

When heated or in contact with incompatible substances (such as metal salts, alkalis, reducing agents or other impurities), there is a risk of decomposition with release of (fire-starting) oxygen gas:

- Overpressure formation / risk of bursting in closed containers and pipelines.
- Fire hazard with organic materials (wood, paper) / explosion hazard with organic solvents.

Other

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Specific concentration limits ATE	Note
hydrogen peroxide solution	7722-84-1 231-765-0 01-2119485845-22-xxxx 008-003-00-9	25 - ≤35%	Ox. Liq. 1, Acute Tox. 4 - oral, Skin Corr. 1A, Acute Tox. 4 - inhalation	H271, H302, H314, H332 - -	Skin Corr. 1A, H314: C ≥ 70% Skin Corr. 1B, H314: 50% ≤ C < 70% Skin Irrit. 2, H315: 35% ≤ C < 50% Ox. Liq. 1, H271: C ≥ 70% Ox. Liq. 2, H272: 50% ≤ C < 70% Eye Dam. 1, H318: 8% ≤ C < 50% Eye Irrit. 2, H319: 5% ≤ C < 8%	B

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Description of first aid measures

First responders: Pay attention to self-protection.

Remove contaminated clothing and shoes.

Get immediate medical advice/attention.

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Inhalation

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Skin contact

IF ON SKIN: Wash with plenty of soap and water.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Call a POISON CENTER/doctor.

Information for doctors

Show this safety data sheet to the doctor in attendance.

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

Inhalation

Shortness of breath, cough Vapours may be irritating to eyes, nose, throat, and lungs.

Skin contact

Causes skin irritation.

Eye contact

Liquid causes severe inflammation of conjunctiva and may cause severe damage of the cornea. May cause irreversible eye damage.

Ingestion

Nausea, vomiting, gastrointestinal discomfort.

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

Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray, dry powder, foam

Unsuitable extinguishing media

Carbon dioxide (CO₂) . Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Oxidising properties

Container may rupture on heating.

The product itself does not burn.

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5.3. Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self contained breathing apparatus.

Measures in case of fire

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Avoid direct contact with the material / product. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

Immediately evacuate personnel to safe areas.

Remove all sources of ignition.

6.2. Environmental precautions

Suppress (knock down) gases/vapours/mists with a water spray jet. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Never use:

Organic absorbent material/pulp/paper.

6.4. Reference to other sections

For information on storage and handling see section 7.

For personal protection see section 8.

For information on incompatible materials, see Section 10.

For information on disposal see section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Wear personal protective equipment. Avoid direct contact with the material / product. Avoid breathing vapors, mist or gas. Use only with adequate ventilation. In case of inadequate ventilation wear respiratory protection.

Take any precaution to avoid mixing with combustibles. Keep away from sources of ignition - No smoking. Keep away from heat. Keep away from direct sunlight.

Handle and open container with care.

General hygiene

Handle in accordance with good industrial hygiene and safety practice.

When using, do not eat, drink or smoke.

Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store in a place accessible by authorized persons only. Do not store near combustible materials. Keep away from food, drink and animal feeding stuffs.

Storage class according to TRGS 510: 5.1B (oxidising hazardous substances)

Storage temperature : 10-30 °C

7.3. Specific end use(s)

See section 1.2: Concentrated liquid bleach

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
hydrogen peroxide solution (7722-84-1/231-765-0)	DNEL	Chronic (long term) Inhalation	1.4 mg/m ³	Workers	Local

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PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
hydrogen peroxide solution (7722-84-1/231-765-0)	PNEC	Freshwater	0.013 mg/l
hydrogen peroxide solution (7722-84-1/231-765-0)	PNEC	Marine water	0.013 mg/l
hydrogen peroxide solution (7722-84-1/231-765-0)	PNEC	Sediment (freshwater)	0.047 mg/kg
hydrogen peroxide solution (7722-84-1/231-765-0)	PNEC	Sediment (marine water)	0.047 mg/kg
hydrogen peroxide solution (7722-84-1/231-765-0)	PNEC	Soil	0.0023 mg/kg
hydrogen peroxide solution (7722-84-1/231-765-0)	PNEC	Sewage Treatment Plant	4.66 mg/l

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Eye / face protection

Safety glasses with side-shields conforming to EN166

Hand protection

Protective gloves complying with EN 374.

Suitable material: (IIR) butylrubber , (FKM) Fluorinated rubber

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Other skin protection

long sleeved clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

suitable respiratory equipment: respirator with combination filter for vapour/particulate.

Recommended Filter type: NO-P3

Thermal hazards

Not applicable.

Environmental exposure controls

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

colourless

Odour

odourless

Odour threshold

Not determined for the mixture.

Melting point / freezing point

< 0 °C

Boiling point or initial boiling point and boiling range

> 100 °C

Flammability

Not determined for the mixture.

Lower and upper explosion limit

May form explosive mixtures in air.

Flash point

No data available

Auto-ignition temperature

Not determined for the mixture.

Decomposition temperature

> 60 °C

pH

2 - 4

Kinematic viscosity

Not determined for the mixture.

Viscosity, dynamic

Not determined for the mixture.

Solubility

Water soluble

Water solubility

Miscible

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Partition coefficient n-octanol/water

Not determined for the mixture.

Vapour pressure

1.9 hPa

Density and/or relative density

1.1 - 1.2 g/cm³

Relative vapour density

Not determined for the mixture.

Evaporation Rate

Not determined for the mixture.

Explosive properties

Vapours may form explosive mixtures with air.

Oxidising properties

Oxidizing Material

VOC %

0 %

Particle characteristics

No data available

9.2. Other information

This product / mixture does not contain any nanomaterials or nanoforms as defined in Regulation (EC) 1907/2006.

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal use.

Heating may cause an explosion. oxidizing agents

10.2. Chemical stability

Stable at normal conditions No decomposition if stored and applied as directed.

Decomposes on heating. (explosive)

10.3. Possibility of hazardous reactions

Explosive - Vapours may form explosive mixture with air.

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Corrosive in contact with metals - Gives off hydrogen by reaction with metals.

10.4. Conditions to avoid

Keep away from fire, sparks and heated surfaces.

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10.5. Incompatible materials

Strong acids and strong bases
Reducing agents
Metals, heavy metal salts, brass powder.
Keep away from combustible materials.

10.6. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.
Oxygen - Explosive
For information on combustion products, see Section 5.

SECTION 11: Toxicological information

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

Acute toxicity

Harmful: possible risk of irreversible effects if swallowed. Harmful by inhalation.

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Remarks
hydrogen per- oxide solution 7722-84-1 / 231-765-0	LD50	>2000 mg/kg	Dermal	-	rabbit	ECHA
hydrogen per- oxide solution 7722-84-1 / 231-765-0	LD50	431 mg/kg	oral	-	rat	-
hydrogen per- oxide solution 7722-84-1 / 231-765-0	LC50	11 mg/l	Inhalative : vapours	4h	rat	-

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

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

Carcinogenicity

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

Reproductive toxicity

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

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STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Remark
hydrogen per- oxide solution 7722-84-1 / 231-765-0	LC50	16,4 mg/l	96h	Pimephales promelas (fathead minnow)	ECHA

Acute algae toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
hydrogen per- oxide solution 7722-84-1 / 231-765-0	EC50	5,74 mg/l	96h	Algae	Average value	GESTIS

Acute crustacean toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Remark
hydrogen per- oxide solution 7722-84-1 / 231-765-0	LC50	2,4 mg/l	48h	Daphnia pulex (Water flea)	ECHA

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12.2. Persistence and degradability

Readily biodegradable.

12.3. Bioaccumulative potential

Does not bioaccumulate

12.4. Mobility in soil

Mobility

No information available

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

12.6. Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

12.7. Other adverse effects

This product / mixture does not contain any substances within the meaning of Regulation (EC) No. 1005/2009 that deplete the ozone layer.

Other

German Water Class

WGK1 - slightly water endangering

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of as hazardous waste in compliance with local and national regulations.

Packaging

Do not re-use empty containers. Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging: Dispose of as unused product.

Waste code	Waste description
16 09 03*	peroxides, for example hydrogen peroxide

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

SECTION 14: Transport information

14.1. UN number

2014

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14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED

IMDG proper shipping name

HYDROGEN PEROXIDE, AQUEOUS SOLUTION

14.3. Transport hazard class(es)

Label

ADR/RID/ADN



5.1



8

ADR / RID Class

5.1

ADR / RID Classification code

OC1

ADR / RID hazard identification number

58

IMDG Class

5.1

IATA Class

5.1

ADN Class

5.1

ADN Class Code

5.1

14.4. Packing group

II

14.5. Environmental hazards

Environmental hazards

-

IMDG Marine Pollutant

-

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14.6. Special precautions for user

Special precautions for user

The usual precautionary measures when handling chemicals must be observed.

IMDG EmS

F-H,S-Q

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other

Additional information ADR-RID

LQ: 1L

EQ: E2

Transport category (tunnel restriction code): 2 (E)

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 648/2004 (detergents)

Ingredients according to Annex VII: > 30 % oxygen-based bleaching agents

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

EU Regulation (EC) No. 1907/2006 (REACH)

Substances subject to authorization according to Annex XIV: not applicable

Substance restrictions according to Annex XVII: not applicable

Substances on the REACH candidate list (SVHC): not applicable

Regulation (EU) No. 528/2012 (BPR)

Active ingredients: not applicable

Regulation (EU) 2019/1148 (explosives)

Restricted raw material according to Annex I: hydrogen peroxide (CAS: 7722-84-1)

Notifiable raw materials according to Annex II: not applicable

Directive 2011/65 / EU (ROHS 2)

Substance restrictions according to Annex II: not applicable

Regulation (EU) 2019/1021 (POP)

Persistent organic pollutants: not applicable

Directive 2012/18/EU (Seveso III)

Seveso hazard category: not applicable

National regulations

In addition, comply with all national and local regulations for the handling of chemicals.

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Other regulations, limitations and legal regulations

Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

The mixture has not been subjected to a safety assessment.

SECTION 16: Other information

Changes to previous revision

Rev. 6.1: Section 2. Hazards identification

Rev. 6.2: General update without changes.

Abbreviations

ADN - European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR - The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE - Acute Toxicity Estimate

BCF - Bioconcentration Factor

CAS - Chemical Abstracts Service

CE - Conformité Européenne (European conformity)

CLP - Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

EINECS - European Inventory of Existing Commercial chemical Substances

ES - Exposure Scenario

EUH statement - CLP-specific Hazard statement

EuPCS - European Product Categorisation System

EWG - European Waste Catalogue

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

GWP - Global warming potential

IARC - International Agency for Research on Cancer (IARC)

IATA - International Air Transport Association

IBC - Intermediate Bulk Container

IMDG - International Maritime Dangerous Goods

LogPow - logarithm of the octanol/water partition coefficient

MARPOL - International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" - marine pollution)

OECD - Organisation for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic

PNEC - Predicted No Effect Concentration

RID - The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN - REACH Registration Number

SCL - A specific concentration limit

STOT-RE - Specific Target Organ Toxicity - Repeated Exposure

STOT-SE - Specific Target Organ Toxicity - Single Exposure

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SVHC - Substances of Very High Concern
TWA - Time weighted average
UN - United Nations
UVBC - Unknown or variable composition, complex reaction products or of biological materials
VOC - Volatile Organic Compound
vPvB - Very Persistent and Very Bioaccumulative

References to key literature and data sources

REACH registration dossiers
ECHA C&L - Inventory
Safety data sheets from raw material suppliers

Evaluation methods for classification

Classification for mixtures and used evaluation method according to Article 9 of regulation (EC) 1272/2008 [CLP]:
Health hazards: calculation method

Phrase meaning

Eye Dam. 1 - Serious eye damage, hazard category 1
Acute Tox. 4 - inhalation - Acute toxicity, inhalation, hazard category 4
Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
Skin Irrit. 2 - Skin irritation, hazard category 2
STOT SE 3 - resp. tract irrit. - Specific Target Organ Toxicity — Single exposure, hazard category 3 - respiratory tract irritation
Ox. Liq. 1 - Oxidising liquids, hazard category 1
Skin Corr. 1A - Skin corrosion, hazard category 1A
H271 May cause fire or explosion; strong oxidiser.
H302 Harmful if swallowed.
H302 + H332 Harmful if swallowed or if inhaled
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.

Additional information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878.

Manufacturer's notes

Legal disclaimer: The above information is believed to be correct. This company shall not be held liable for any damage resulting from handling or from contact with the above product.