1. Identification of substance

Product Name	Hydrogen Peroxide Solution
Other Name	Hydrogen Peroxide Solution
Chemical Name	Hydrogen Peroxide Solution
Recommended Use	Disinfection, bleach.
Manufacturer/Supplier	SUD INDUSTRIE
Address	83150 BANDOL - FRANCE
Phone Number	33 (0)4 94 26 54 51
WEB or E-mail	sudindustrie@sudindustrie.fr
Emergency Phone Number	+ 33 (0)4 94 26 54 51

2. Hazards identification

GHS classification

Oxidizing liquids 2
Acute toxicity-oral 4
Acute toxicity- inhalation 5
Skin corrosion/irritation 1B
Serious eye damage/eye irritation 1
Specific target organ toxicity, single exposure 3
Hazardous to the aquatic environment, long-term hazard 3

GHS Pictograms



Signal words: Danger

Hazard statements:
H272:May intensify fire;oxidizer
H302:Harmful if swallowed
H333:May be harmful if inhaled
H314:Causes severe skin burns and eye damage
H318:Causes serious eye damage
H335:May cause respiratory irritation
H412:Harmful to aquatic life with long lasting effects

Precautionary Statement Prevention:
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.
P260:Do not breathe dust/fume/gas/mist/vapours/spray.
P261:Avoid breathing dust/fume/gas/mist/vapours/spray.
P264:Wash hands thoroughly after handling.
P264+P265:Wash hands [and…] thoroughly after handing. Do not touch eyes.

	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:Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Precautionary Statement Response	P301+P317:IF SWALLOWED: Get medical help. P301+P330+P331:IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302+P361+P354:IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. P304+P317:IF INHALED: Get medical help. P304+P340:IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P354+P338:IF IN EYES:Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P316:Get emergency medical help immediately. P317:Get medical help. P319:Get medical help if you feel unwell. P321:Specific treatment (see the supplemental first aid instruction). P330:Rinse mouth. P363:Wash contaminated clothing before reuse P370+P378:In case of fire: Use ... to extinguish
Precautionary Statement Storage	P403+P233:Store in a well-ventilated place. Keep container tightly closed. P405:Store locked up.
Precautionary Statement Disposal	P501:Dispose of contents/container in according with local regulation.
Other hazards which do not result in classification	No data

3. Composition/information on ingredients

□ **Substances**
√ **Mixtures**
Component Information

Component	**CAS number**	**EINECS number**	**Mass(%)**
Water	7732-18-5	215-185-5	50%wt
Hydrogen peroxide	7722-84-1	231-765-0	50%wt

Note:1. Unless a component presents a severe hazard, it does not need to be considered in the SDS if the concentration is less than 1%.

4.First-aid measures

NOTE TO PHYSICIAN	In the case of shortness of breath, oxygen should be given to the victim. Keep the victim under observational supervision.

	Symptoms may be delayed. First responders need to protect themselves. Place contaminated clothing in a ziploc bag for subsequent disposal.
After inhalation	Move to a place with fresh air. Provide oxygen or artificial respiration if necessary. Seek medical attention immediately.
After skin contact	Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. If skin irritation persists: Get medical advice. If it is a small area of skin contact, prevent the expansion of the contact area. Place contaminated clothing in a sealed bag for subsequent disposal.
After eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Use your fingers to separate the eyelids to ensure adequate flushing of the eyes. Seek medical attention immediately.
After ingestion	Do not induce vomiting without medical advice. If the victim needs to vomit, lean forward to reduce the risk of sucking back. Loosen tight clothing such as collars, ties, belts, or belts. Do not use mouth-to-mouth rescue. Seek medical attention immediately.
Most important symptoms/effects, acute and delayed	Harmful if swallowed May be harmful if inhaled Causes severe skin burns Causes serious eye damage May cause respiratory irritation
5. Fire-fighting measures	
Suitable extinguishing agents	In case of fire in the surroundings, use appropriate extinguishing media. In case of fire: keep drums, etc., cool by spraying with water.
Special hazards caused by the material, its products of combustion or flue gases	In closed unventilated containers, risk of explosion due to the increased pressure from decomposition. Can be released in case of fire: water, oxygen.
Protective equipment for fire-fighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
6. Accidental release measures	
Person-related safety precautions	Quickly evacuate the contaminated area personnel to a safe area, and isolate, restricted access strictly. Recommended emergency personnel wear self-contained breathing apparatus, wear protective overalls. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering.

Measures for environmental protection	Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting	Cut off the source of leakage as far as possible. Prevent from flowing into the restricted space such as sewers and flood discharge ditches. For small amounts: adsorb with sand, vermiculite or other inert materials. For large amounts: build a causeway or trenching asylum. Water spray cooling and dilution steam, protect field personnel. Transfer to tank car or special collector by pump, recycle or transport to waste disposal site.
Additional information	See Section 7 for information on safe handling. See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

7. Handling and storage

Handling

Information for safe handling	Avoid contact with skin, eyes, mucous membranes and clothing. Provide adequate ventilation. Vapors are extracted at the exhaust source. Do not breathe dust/fume/gas/mist/vapor/spray.
Information about protection against explosions and fires	Keep away from heat/sparks/open flames/hot surfaces. --No smoking. Take steps to prevent electrostatic charge build-up.

STORAGE

Requirements to be met by storerooms and containers	Store in a cool, dry and well-ventilated warehouse, away from fire, heat sources, prevent sunlight exposure, and keep the container sealed. Packaging material: stainless steel or steel coated with protective layer. Unsuitable packaging material: Steel. light sensitive, Avoid decomposition and generation of oxygen gas which could result in high pressures and possible container rupture.
Information about storage in one common storage facility	Store away from incompatible substances such as reducing agents, combustible material, active metal powder, etc. Plastic buckets and other containers should be vented or pressure relief valve.
Further information about storage conditions	The storage room shall be equipped with corresponding types and quantities of fire fighting equipment, leakage emergency treatment equipment and suitable containment materials.

8. Exposure controls/personal protection

Limit Values for Exposure

Component	**CAS number**	**ACGIH TLV-TWA**	**ACGIH TLV-STEL**	**NIOSH PEL-TWA**	**NIOSH PEL-STEL**
Hydrogen peroxide	7722-84-1	1ppm	N.E.	1ppm	N.E.

Appropriate engineering controls	Airtight production process, overall ventilation. Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower facility.
General protective and hygienic measures	Do not get this material in contact with skin. Do not get this material on clothing. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment	Splash goggles, neoprene gloves, apron and a dust/vapor respirator
Breathing equipment	When workers are facing high concentrations they must use appropriate certified respirators, such as full-face airline respirator.
Protection of hands	Wear neoprene glove.
Eye/Face protection	Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure, made of polycarbonate, acetate, polycarbonate/acetate, PETG or thermoplastic.
Body protection	Use clean protective body-covering as needed to minimize contact with clothing and skin, such as an approved splash protective suit made of SBR rubber, PVC, Gore-Tex.

Note: 1. N.E. means not established.

9.Physical and chemical properties

Physical state	Clear liquid
Colour	Colorless
Odour	A weak special odour
Melting point/freezing point	-2 ℃ (Anhydrous)
Boiling point or initial boiling point and boiling range	158 ℃ (Anhydrous)
Flammability	May intensify fire; oxidizer
Lower and upper explosion limit/ flammability limit	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	1-2 (concentration: 50%)
Kinematic viscosity	No data available
Solubility	Soluble in water, ethanol, ether, insoluble in benzene, petroleum ether

Partition coefficient: n-octanol/water(log value)	No data available
Vapour pressure	No data available
Density and/or relative density	1.196 g/ml (20 ℃)
Relative vapour density (air=1)	No data available
Particle characteristics	Not applicable

10. Stability and reactivity

Reactivity	No data available.
Chemical stability	Decomposes slowly to release oxygen. Light sensitive.
Possibility of hazardous reactions	No polymerization.
Conditions to avoid (e.g. static discharge, shock or vibration)	Incompatible materials. Strong light. Heat. Impact.
Incompatible materials	Avoid contact with sugar, starch, alkali, metal (such as iron, copper, silver, etc.).
Hazardous decomposition products	Oxygen, liable to produce overpressure in container.

11.Toxicological information

This product is a preparation for which no toxicological data exists. When available, toxicological data for the product's hazardous ingredients are provided below.

Routes of Entry: skin contact, eye contact, inhalation, ingestion.

Acute Toxicity

Hydrogen peroxide（CAS 7722-84-1）	LD50 (Oral, rat): 1,193 mg/kg LC50 (Inhalation, rat): 200 mg/m^3(4 h) LD50 (Dermal, rabbit): > 2,000 mg/kg
Skin corrosion/Irritation	Causes severe skin burns
Serious eye damage/irritation	Causes serious eye damage
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	May cause respiratory irritation
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Chronic Effects	Not classified
Further Information	None

12. Ecological information

Ecotoxicity

Aquatic Toxicity	Hydrogen peroxide（CAS 7722-84-1） Test & Species 96 Hr LC50 Fish: 16.4 mg/l 48 Hr EC50 Daphnia: 2.4 mg/l 72 Hr EC50 Algae: 1.38 mg/l
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Additional Information	Harmful to aquatic life with long lasting effects

13. Disposal considerations

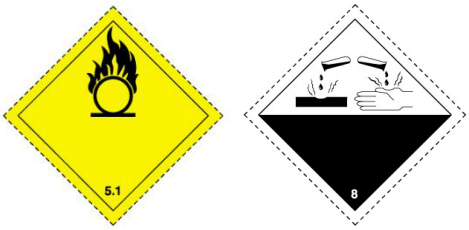
WASTE DISPOSAL INSTRUCTIONS

Contact a qualified professional waste disposal service to dispose of this material.

Dispose of in accordance with local environmental regulations or local authority requirements.

14. Transport information

The Recommendation of Transport of Dangerous Goods(TDG)

UN Number	UN 2014
Proper Shipping Name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide
Class/Division	Division 5.1 Oxidizing Substances
Package Group	PG II
Subsidiary risk	Class 8 Corrosive Substances
labelling pictogram	
Maritime transport IMDG/ Marine pollutant (Yes/No)	Being same with TDG/No
Air transport ICAO-TI and IATA-DGR	Being same with TDG See A2, A75 for Special Provisions.

15. Regulatory information

European/International Regulations

OSHA:	Hazardous by definition of Hazard Communication Standard (29CFR 1910.1200).
EINECS Status :	The main components of this chemical are included in EINECS inventory.
EPA TSCA Status :	The main components of this chemical are included in TSCA inventory.
Canadian DSL(Domestic	The main components of this chemical are included in DSL.

Substances List):	
HMIS(Hazardous Material Identification System Ratings):	Health: 3 Flammability: 0 Physical hazard: 1 Personal protection: J (4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1. Slight Hazard; 0. Minimal Hazard
WHMIS(Canadian Workplace Hazardous Material Identification System Ratings):	C、D1B、E、F
GB 12268-2012 List of dangerous goods	This chemical is a dangerous goods on the GB 12268-2012 list of dangerous goods.

16. other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

This Material Safety Data Sheet was based on the "Globally Harmonized System of Classification and Labelling of Chemicals", "Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations", "INTERNATIONAL MARITIME DANGEROUS GOODS CODE"," International Air Transport Association Dangerous Goods Regulations", the National Standards and other related dangerous chemicals management laws, regulations and standards, which are periodically updated and changed. To make dangerous goods / hazardous chemicals comply with the relevant requirements of the latest management, regularly update is recommended.

This Material Safety Data Sheet has been compiled in both English and Chinese. For any discrepancies, the Chinese version shall prevail.

Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
IMDG: International Maritime Code for Dangerous Goods
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50 percent

	LD50: Lethal dose, 50 percent EC50: effective concentration,50 percent
Edit Date	11.08.2025
Update and Revise	Original edition
Edit Standard	*Globally Harmonized System of Classification and Labelling of Chemicals* Part 1.5
Revised Institution	Technology Center of Hangzhou Customs District