Preparing for the New Era of Laboratories

MATERIAL SAFETY DATA SHEET (MSDS)

According to regulation (EU) no.1907/2006

HYDROGEN PEROXIDE SOLUTION 30% AR

PRODUCT CODE : B-3041

CAS No : 7722-84-1

FORMULA : H_2O_2

UN No : 2014

MATERIAL SAFETY DATA SHEET (SDS/MSDS)
HYDROGEN PEROXIDE SOLUTION 30% AR

MSDS Number : 0186 | Date : Aug 23th, 2024 | Version : 1.0

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

1.1 Product Name : **HYDROGEN PEROXIDE SOLUTIONN 30%AR**
Synonyms : Hydrogen Peroxide 30%, Perhydroxic acid Solution, Dioxidane Solution, Perhydrol
CAS No. : 7722-84-1
HS Code : 2847 00 00
Chemical Formula : H_2O_2
Molecular Weight : 34.01 g/mol
Product Code : B-3041
Brand : Labotiq
1.2 Manufacturer : Labotiq
Address : Jl.Terapi Raya AD2-Bumi Menteng Asri Bogor, Jawa Barat Indonesia – 16111
Website : www.labotiq.net
Email : labotiq.id@gmail.com,
For information : Phone : (+62-251) 839110, 8311662, Fax : (+62-251) 83135710
Emergency number : +6281316894650
1.3 Application : Laboratory chemicals, Manufacture of substances, General Chemical reagent

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Oxidizing liquid .1 H271
Acute toxicity, Category 4, Oral, H302
Serious eye damage, Category 1, H318

For the full text of the H-Statements mentioned in this Section, see Section 16

2.2 Label elements
Labelling according Regulation (EC) No 1272/2008
Pictogram

Signal word	Danger
Hazard statement(s)	
H271	Can intensify fire; Oxidizer.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
Precautionary statement(s)	
Prevention	
P280	Use eye protection.
Response	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313	Look for medical help

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : Hydrogen Peroxide 30%, Perhydroxic acid Solution, Dioxidane Solution, Perhydrol
Formula : H_2O_2
Molecular weight : 34.01 g/mol
CAS-No. : 7722-84-1

3.2 Mixture

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Hydrogen peroxide CAS-No. 7722-84-1 EC-No. 231-765-0 Index-No. 008-003-00-9	Oxidation liquid, Category 1, H271 Acute toxicity, Category 4, H332 Acute toxicity, Category 4, H302 Skin corrosion, Category 1A, H314	≥ 25 % - ≤ 35 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes severe skin burns and eye damage.
Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

4.3 Indication of any immediate medical attention and special treatment needed

Note for the doctor: It is recommended to consult a doctor with experience in the treatment of lesions caused by hydrofluoric acid. If a systemic effect is suspected, monitoring and treatment in an intensive care unit is urgently required. Caution, ventricular fibrillation due to electrolyte imbalance.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known. Not combustible.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not empty into drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.Observe possible material restrictions (see sections 7 and 10).Take up with liquid-absorbent and neutralising material (e.g. Chemizorb® H^+, Merck Art. No. 101595). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray.

Hygiene measures
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions
Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Store in a well-ventilated place. Keep cool. Do not store near combustible materials. Recommended storage temperature see product label.

Storage class
Storage class (TRGS 510): 5.1B: Oxidizing hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriat engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Tightly fitting safety goggles

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact
Material: Latex gloves
Minimum layer thickness: 0,6 mm
Break through time: 480 min
Material tested:Lapren®

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0,11 mm
Break through time: 480 min
Material tested:KCL 741

Body Protection
protective clothing

Respiratory protection
Recommended Filter type: filter NO
The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure
Do not empty into drains

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Form: clear, liquid Colour: Colorless
Odour	slight
Odour Threshold	No data available
pH	2 - 4 at 20 °C
Melting point/freezingpoint	Melting point: -26 °C at 1.013 hPa
Initial boiling point and boiling range	107 °C at 1.013 hPa
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or	No data available
explosive limits	No data available
Vapour pressure	ca.18 hPa at 20 °C
Vapour density	No data available
Relative density	1,11 g/cm3 at 20 °C
Water solubility	at 20 °C soluble
Partition coefficient: noctanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	> 100 °C -
Viscosity	No data available
Explosive properties	Not classified as explosive.
Oxidizing properties	Oxidizing potential

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
Has a fire-promoting effect due to release of oxygen.

10.2 Chemical stability
heat-sensitive Sensitivity to light

10.3 Possibility of hazardous reactions
Risk of explosion with: Acetaldehyde Acetone Activated charcoal Alcohols formic acid Ammonia combustible substances vinyl acetate Organic Substances Powdered metals Dust hydrazine and derivatives
hydrides Ether Potassium anilines Metallic salts acetic acid Acetic anhydride Formaldehyde furfuryl alcohol oils sodium Lithium lithium aluminium hydride organic solvents Magnesium metallic oxides

Methanol Reducing agents Oxides of phosphorus butanol with Sulphuric acid alkali hydroxides with Heavy metals

Exothermic reaction with: alkali hydroxides antimony sulfide tin (II) chloride Sulfides 3-BROMO - 5 - CHLORO - 4 -HYDROXYBENZALDEHYDE nitric acid (conc.) ethanol glycerol Potassium hydroxide phosphorus metallic oxides Sodium hydroxide Aldehydes nonmetals nonmetallic oxides strong alkalis Amines Acids Oxidizing agents alkali salts Alkali metals Alkaline earth metals iodides peroxi compounds Brass organic nitro compounds phenol with metal catalysts

Risk of ignition or formation of inflammable gases or vapours with: potassium permanganate Wood/Sawdust vinyl acetate with Catalyst

10.4 Conditions to avoid
Heating.

10.5 Incompatible materials
Metals

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Acute toxicity estimate Oral - > 2.000 mg/kg (Calculation method)
Acute toxicity estimate Inhalation - 4 h - > 20 mg/l (Calculation method)
Dermal: No data available

Skin corrosion/irritation
After long-term exposure to the chemical: Causes skin burns.

Serious eye damage/eye irritation
conjunctivitis

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrogen peroxide)

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects
Harmful to aquatic life.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product
Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product

SECTION 14: Transport information

14.1 UN number
ADR/RID: 2014 IMDG: 2014 IATA: 2014

14.2 UN proper shipping name
ADR/RID: HYDROGEN PEROXIDE, AQUEOUS SOLUTION
IMDG: HYDROGEN PEROXIDE, AQUEOUS SOLUTION
IATA: HYDROGEN PEROXIDE, AQUEOUS SOLUTION

14.3 Transport hazard class(es)
ADR/RID: 5.1 (8) IMDG: 5.1 (8) IATA: 5.1 (8)

14.4 Packaging group

ADR/RID: II | IMDG: II | IATA: II

14.5 Environmental hazards

ADR/RID: no | IMDG Marine pollutant: no | IATA: no

14.6 Special precautions for user

No data available

SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

National Fire Protection Association (U.S.A.):

Health: 3
Flammability: 0
Reactivity: 2.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Labotiq shall not be held liable for any damage resulting from handling or from contact with the above product.

Version : 1.0
Revision Date : October 14, 2024