



Safety Data Sheet

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Section 1 - Identification

1.1 Product Identifier

Product Name : Hydrogen Peroxide
CAS No. : 7722-84-1

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

Identified uses : Reagent for analysis, Chemical Production.

1.3 Details of the supplier of the safety data sheet

Company : 9920 Pacific Heights Blvd
Suit 150
San Diego
California -92121

1.4 Emergency Telephone number

Emergency phone : +1 (858) 245-0283

Section 2: Hazard Identification

2.1 Classification of the substance or the mixture – Regulation (EC) No. 1272/2008

Oxidising Liquid	Category 1	H271
Acute Toxicity, Oral	Category 4	H302
Skin corrosion/irritation	Category 1 A	H314
Eye damage	Category 1	H318
Specific target organ toxicity - single exposure	Category 3	H335
Hazardous to the aquatic environment	Category 3	H 412

For the full text of H-statements refer Section 16

2.2 Label elements

Label according Regulation (EC) 1272/2008

Hazard Pictogram



Signal Word:
DANGER

Hazard statements

- | | |
|------|--|
| H271 | May cause fire or explosion; strong oxidiser |
| H302 | Harmful if Swallowed |
| 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 effect |

Precautionary statements

- | | |
|----------------|--|
| P210 | Keep away from heat, sparks, open flames, hot surfaces. No smoking |
| P310 | Immediately call a POISON Centre or doctor / physician |
| P280 | Wear protective gloves, protective clothing, eye protection face protection. |
| P301+P330+P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting |

P305+P351+P338

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

P303+P361+P353

IF ON SKIN (or hair) ; Remove, Take off immediately all
contaminated clothing. Rinse skin with water, shower.

Reduced labeling

Hazard Pictogram



Signal Word:
DANGER

Hazard statements

H318

Causes serious eye damage

Precautionary statements

P280

Wear protective gloves, protective clothing, eye protection, face
protection.

P305+P351+P338

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

2.3 bioaccumulative or toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 3: Composition/information on ingredients

3.1 Substance

CAS No : 7722-84-1

EC-Nr : 231-765-0

Index-No : 008-003-00-9
Formula : $\text{H}_2\text{O}_2/\text{H}_2\text{O}$
Concentration : 30 + % H_2O_2
Classification : As per Sec. 2.1

Section 4: First aid measures

4.1 Description of first aid measures

General advice

First-aid personnel: ensure self-protection.

After inhalation: Remove to fresh air, seek medical advice.

After contact with skin: Wash off with plenty of water. Remove contaminated clothing. Immediately call in physician.

After contact with eyes: Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately call an ophthalmologist.

After ingestion: Never give anything by mouth to an unconscious person. Make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Immediately call in physician. Do not attempt to neutralize.

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

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indications of any immediate medical attention and special treatment needed

No data available.

Section 5: Firefighting measures

5.1 Extinguishing Media

Suitable extinguishing media

In adaption to materials stored in the immediate neighbourhood.

Unsuitable extinguishing media

Prevent fire-fighting water from entering surface water or groundwater.

5.2 Special hazard arising from the substance or mixture

Non-combustible. Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

5.4 Further information

no data available.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not inhale vapours/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.

For personal protection see section 8.

6.2 Environment precautions

Do not allow to enter sewerage system.

6.3 Methods and materials for containment and cleaning up

Absorb on vermiculite, sand or a pillow from Chemical Spill Center.

6.4 Reference to other sections

For disposal see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary. The product should be handled with the care as required in dealing with chemicals.

For precautions see section 2.2

7.2 Conditions for safe storage, including any incompatibilities

Closed and dark.

Recommended storage temperature see product label.

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

Exposure controls

Engineering measures

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

See section 7.1

Individual protection measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance. Under no circumstances eat or drink at workplace. Work under hood. Do not inhale substance.

Respiratory protection

Required when vapours/aerosols are generated.

The entrepreneur 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.

Eye protection

Required.

Hand protection

Required.

Body protection

Required.

Environment exposure controls

Do not allow to enter sewerage system.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Form	: Liquid
Colour	: Colourless
Odour	: Pungent

Changes in physical state

Melting point	: -24°C
Boiling point	: 110°C

Flash point	:	-
Ignition temperature	:	-
Molecular weight	:	34.01 g/mol
Density	:	1.13 g/ml
pH Value	:	pH 2 -4
Solubility in water	:	Soluble
Explosion limits	:	Not classified as explosive

9.2 Other safety information

No data available

Section 10: Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

Avoid contact with acids, metals, combustible materials, heat and sunlight

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity	LD50 orl. Rat 1232 mg/Kg
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Skin irritation	No data available
Eye irritation	No data available
Sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Teratogenicity Specific target organ toxicity single exposure	No data available
Specific target organ toxicity repeated exposure	No data available
Aspiration hazard	No data available

11.2 Further information

Handle in accordance with good industrial hygiene and safety procedures

Section 12: Ecological information

12.1 Toxicity	No data available
12.2 Persistence and degradability	No data available
12.3 Bioaccumulated potential	No data available
12.4 Mobility in soil	No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Do not allow to enter waters, waste water or soil.

Section 13: Disposal considerations

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislations. Send to a licenced recycler, reclaimer or incinerator equipped with an afterburner and scrubber.

13.2 Additional information

Disposal should be in accordance with local, state or national legislations.

Section 14: Transportation information

Land Transport (ADR/RID)

14.1 UN Number

UN 2014

14.2 Proper shipping name

Hydrogen peroxide aqueous solution

14.3 Class

5.1 (8)

14.4 Packing group

II

14.5 Environmentally hazardous

-

14.6 Special precautions for user

Yes

Air Transport (IATA)

14.1 UN Number

UN 2014

14.2 Proper shipping name

Hydrogen peroxide aqueous solution

14.3 Class

5.1 (8)

14.4 Packing group

II

14.5 Environmentally hazardous -

14.6 Special precautions for user Yes

Sea Transport (IMDG)

14.1 UN Number UN 2014

14.2 Proper shipping name Hydrogen peroxide aqueous solution

14.3 Class 5.1 (8)

14.4 Packing group II

14.5 Environmentally hazardous -

14.6 Special precautions for user Yes

Section 15: Regulatory information

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

For this product an assessment was not carried out.

15.2 Chemical safety assessment

For this product an assessment was not carried out.

Section 16: Other information

Full text of H-statements referred to under section 2 and 3

H271	May cause fire or explosion; strong oxidiser
H302	Harmful if Swallowed
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 effect

Full text of R-phrases referred to under section 2 and 3 R35 Causes severe burns.

R34 Causes burns.

R37 Irritating to respiratory system.

Further information

The information and recommendations in this SDS are to the best of our knowledge, information and belief accurate at the time of publication. Although utmost care is been taken in composition of this text, Highpuric LLC cannot be held responsible for any damage resulting from any possible error in this publication.