



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
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SAFETY DATA SHEET (SDS)

Hydrogen Peroxide *SDS*

REV 3.1
29 JULY 2026
GHS REV.11 (2025)

CAS 7722-84-1 EC 231-765-0 SIGNAL WORD **DANGER**

GHS03

Oxidising

GHS05

Corrosive

GHS06

Acute Toxicity

GHS07

Harmful /
Irritant

GHS09

Environmental
Hazard

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name	Hydrogen Peroxide
Product Type	Hydrogen Peroxide — corrosive / oxidising / irritant chemical
Chemical Family	Inorganic peroxide
CAS No.	7722-84-1
EC No.	231-765-0
Intended Use	Industrial / professional use as described on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm suitability for final application before use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/hydrogen-peroxide
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Ox. Liq. 1; Acute Tox. 4 (oral); Acute Tox. 3 (dermal); Acute Tox. 3 (inhalation);
Skin Corr. 1A; Eye Dam. 1; STOT SE 3; Aquatic Chronic 3



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Signal Word	DANGER
GHS Pictograms	GHS03 (Oxidising) GHS05 (Corrosive) GHS06 (Acute Toxicity) GHS07 (Harmful / Irritant) GHS09 (Environmental Hazard)

HAZARD STATEMENTS

- H271 — May cause fire or explosion; strong oxidiser
- H302 — Harmful if swallowed
- H311 — Toxic in contact with skin
- H314 — Causes severe skin burns and eye damage
- H318 — Causes serious eye damage
- H331 — Toxic if inhaled
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H412 — Harmful to aquatic life with long lasting effects

PRECAUTIONARY — 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.
- P221 — Take precautionary measures against mixing with combustibles.
- P233 — Keep container tightly closed.
- P260 — Do not breathe vapours or spray.
- P271 — Use only outdoors or in a well-ventilated area.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY — RESPONSE / STORAGE / DISPOSAL

- P301+P310 — IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P303+P361+P353 — IF ON SKIN OR HAIR: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.



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- 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 or doctor.
- P331 — Do NOT induce vomiting.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P370+P378 — In case of fire: Use appropriate media for extinction.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P405 — Store locked up.
- P501 — Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Hydrogen Peroxide	7722-84-1	231-765-0	Varies by grade (typically 30–60% aqueous solution; up to 100% anhydrous)	Ox. Liq. 1; Acute Tox. 4 (oral); Acute Tox. 3 (dermal); Acute Tox. 3 (inhalation); Skin Corr. 1A; Eye Dam. 1; STOT SE 3; Aquatic Chronic 3
Water	7732-18-5	231-791-2	Balance (in aqueous grades)	Not classified

Full text of H-statements listed in Section 16. Exact concentration depends on grade supplied; verify with supplier Certificate of Analysis.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person immediately to fresh air and keep comfortable for breathing. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor immediately.
Skin Contact	Remove contaminated clothing immediately. Rinse affected skin with large amounts of water for at least 15–20 minutes. Seek medical attention if irritation, burns or blistering occurs. Bleaching of skin may occur — do not underestimate severity.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate



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	medical attention — hydrogen peroxide causes serious eye damage.
Ingestion	Rinse mouth. Do NOT induce vomiting (gas evolution risk). Give water to drink if conscious. Call a POISON CENTER or doctor immediately.
Note to Physician	Treat symptomatically. Hydrogen peroxide decomposes to water and oxygen; large ingestions may cause gas embolism. Gastric lavage is contraindicated due to oxygen release risk.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Water spray, water fog, dry chemical, carbon dioxide (CO ₂). Large quantities of water are preferred to dilute and cool.
Unsuitable Media	Do not use direct high-pressure water jet — may spread burning material. Avoid dry chemical on large spills where possible.
Specific Hazards	Hydrogen peroxide is a strong oxidiser and can cause or intensify fires. Decomposes on heating, releasing oxygen and accelerating combustion of nearby materials. Vapours and mists are irritating. Containers may rupture violently when heated.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Do not allow firefighting runoff to enter drains or waterways.
Special Procedures	Evacuate non-essential personnel. Cool exposed containers with water spray. Prevent contaminated run-off from entering drains and watercourses. Collect contaminated firefighting water separately — do not allow to enter drains.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate spill area. Keep unnecessary personnel away. Wear appropriate PPE from Section 8 (chemical-resistant gloves, eye/face protection, respiratory protection). Eliminate all ignition sources — hydrogen peroxide is a strong oxidiser.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. If large quantities reach waterways, notify local environmental authorities.
Containment / Clean-up	Contain and collect spilled material using compatible, non-combustible absorbent (e.g. vermiculite, sand — do NOT use organic absorbents such as sawdust). Transfer to labelled, compatible



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containers for disposal. Dilute residue with large amounts of water.
Flush area with water.

Reference to Sections

See Section 8 for PPE, Section 13 for disposal and Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions

Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours or mists. Keep away from combustible materials, heat and ignition sources. Use non-sparking tools and explosion-proof equipment. Ground and bond containers when transferring.

Hygiene

Wash hands thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

Storage Conditions

Store in original, tightly closed compatible containers (HDPE, aluminium, stainless steel). Keep in a cool, dry, well-ventilated area away from direct sunlight. Store away from combustible and organic materials.

Storage Temperature

Store below 30°C. Refrigeration recommended for concentrated grades; do not freeze.

Incompatible Materials

Strong reducing agents, organic materials, combustibles, metals (iron, copper, manganese — catalyse decomposition), flammable materials, concentrated acids, alkalis. See Section 10.

Segregation

Segregate from food, drink, animal feed, flammable materials, organic solvents and incompatible chemicals. Store in dedicated, clearly labelled area.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit

Hydrogen Peroxide (CAS 7722-84-1): OSHA PEL 1 ppm (TWA); NIOSH REL 1 ppm (TWA); ACGIH TLV 1 ppm (TWA); UK WEL 1 ppm / 1.4 mg/m³ (TWA). India: refer to current MoLE / CPCB schedule. Verify current local OELs from competent authority.

Engineering Controls

Use closed handling systems or local exhaust ventilation (LEV) to control vapours and mists. Ensure adequate general ventilation. Use explosion-proof electrical/ventilating/lighting equipment.



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Respiratory Protection	If ventilation is inadequate or OEL may be exceeded, use a NIOSH-approved or EN 143/140-compliant respirator with acid gas / inorganic vapour cartridge. Use SCBA for emergencies or high concentrations.
Hand / Eye / Skin	Hands: Chemical-resistant gloves (nitrile, butyl, neoprene or PVC; minimum 0.4 mm thickness). Eyes/Face: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield where splash risk exists. Body: Chemical-resistant apron or full-body suit; safety boots. Provide emergency eyewash station and safety shower in work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless liquid (pure compound is a crystalline solid below -0.43°C). Often supplied as an aqueous solution.
Odour	Slightly sharp (acidic) odour
Odour Threshold	Not established in reviewed public sources
pH	Acidic; pH approx. 4.5–5 (for 30% aqueous solution). Verify with supplier COA.
Melting / Freezing Point	-0.43°C (31.3°F) — pure compound (NTP, 1992). Aqueous solutions freeze at lower temperatures depending on concentration.
Boiling Point / Range	150.2°C (302.4°F) at 760 mmHg — pure compound (NTP, 1992). Aqueous solutions boil at lower temperatures; $\sim 107^{\circ}\text{C}$ for 52% solution (EPA, 1998).
Flash Point	Not applicable — hydrogen peroxide is not flammable. It is a strong oxidiser (classified Ox. Liq. 1).
Auto-ignition Temperature	Not applicable (non-flammable oxidiser). Decomposes exothermically above $\sim 65^{\circ}\text{C}$; rate increases with contamination.
Flammability Limits	Not applicable — not a flammable liquid. However, oxygen released on decomposition can support combustion of nearby materials.
Vapour Pressure	1 mmHg at 15.3°C (59.5°F) (NTP, 1992); 1.97 mmHg (20°C) — pure compound. Lower for aqueous solutions.
Vapour Density (air = 1)	1.02 (calculated, EPA, 1998) — slightly heavier than air; vapours/mists will tend to settle.
Relative Density	1.463 at 0°C (32°F) — pure compound; approx. 1.11 at 20°C (68°F) for $\sim 30\%$ aqueous solution; 1.29–1.30 at 20°C for $>52\%$ solution (EPA, 1998). Denser than water.
Solubility in Water	Miscible in all proportions (NIOSH, 2024); ≥ 100 mg/mL at 22°C (NTP, 1992).



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Log Pow (Partition Coeff.)	-1.36 (calculated) — very hydrophilic; does not bioaccumulate.
Evaporation Rate	Slower than water; see supplier SDS for grade-specific value.
Viscosity	Approx. 1.245 mPa·s (pure liquid at 20°C); similar to water. Grade-specific values from supplier.
VOC Content	Negligible / not applicable (inorganic compound). Assess per applicable regional VOC regulations.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended cool, dark storage conditions. Decomposes slowly to water and oxygen even under normal conditions; rate increases with heat, light, contamination, and elevated pH.
Conditions to Avoid	Heat (above 40–50°C accelerates decomposition), direct sunlight / UV light, contamination with metals (iron, manganese, copper), organic materials, dust, and incompatible substances. Avoid contact with combustible materials.
Incompatible Materials	Strong reducing agents; organic materials and combustibles; metals and metal salts that catalyse decomposition (iron, copper, manganese, lead, silver); flammable solvents; concentrated acids and alkalis; chlorine-based compounds.
Hazardous Decomposition	Decomposes to water (H ₂ O) and oxygen (O ₂) — oxygen release can pressurize closed containers and support combustion. In fire conditions: irritating / toxic fumes may be released from contaminated materials.
Hazardous Reactions	Will not polymerise. Vigorous / explosive decomposition may occur if contaminated, exposed to high heat, or mixed with incompatible materials. Runaway decomposition is a serious hazard with concentrated grades.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Rat LD ₅₀ (oral): 805 mg/kg (30% solution) — Acute Tox. 4 (H302). Irritating and corrosive to GI tract; concentrated solutions cause severe burns.
Acute Dermal Toxicity	Classified Acute Tox. 3 (dermal) — H311. Causes skin whitening (bleaching), irritation and at high concentrations chemical burns.



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	LD ₅₀ data: confirm with supplier SDS.
Acute Inhalation Toxicity	Classified Acute Tox. 3 (inhalation) — H331. Vapours and mists are irritating to the respiratory tract; high concentrations may cause pulmonary oedema. IDLH: 75 ppm (NIOSH).
Skin Irritation	Classified Skin Corr. 1A (H314) — causes severe skin burns at concentrated grades. Lower concentrations cause bleaching and irritation.
Eye Irritation	Classified Eye Dam. 1 (H318) — causes serious irreversible eye damage. Even dilute solutions are irritating.
Sensitisation	Not classified as a skin or respiratory sensitiser based on available data.
Carcinogenicity	IARC: Group 3 (not classifiable as to carcinogenicity in humans) — NTP, OSHA: not listed. Not classified under GHS.
Mutagenicity	Not classified as a germ cell mutagen under GHS based on available data. Some in vitro genotoxicity data exist; verify with supplier.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Chronic 3 (H412). Harmful to aquatic life with long lasting effects. Acute aquatic toxicity: LC ₅₀ (fish, 96h) ~16 mg/L; EC ₅₀ (Daphnia, 48h) ~8 mg/L (literature values — verify with supplier).
Persistence / Degradability	Hydrogen peroxide is readily biodegradable / abiotically degraded — decomposes to water and oxygen. Not persistent in the environment under normal conditions.
Bioaccumulation	Log Pow = -1.36; very low bioaccumulation potential. Not expected to accumulate in organisms.
Mobility in Soil	Highly water-soluble and miscible; mobile in soil and groundwater. Decomposes rapidly in soil.
Other Adverse Effects	Avoid uncontrolled release. Concentrated spills may locally deplete dissolved oxygen in water bodies. Manage releases and waste under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised hazardous waste contractor in accordance with applicable local, state and national
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regulations. Dilute solutions may be treated with reducing agents before disposal — confirm with local authority.

Contaminated Packaging

Empty containers may retain active residues; handle as hazardous until thoroughly rinsed or properly disposed of through an authorised contractor.

Indian Regulations

Follow Hazardous Waste (Management, Handling and Transboundary Movement) Rules under the Environment Protection Act, and applicable CPCB / SPCB requirements. Assign applicable HW schedule category with waste contractor.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 2014	UN 2014	UN 2014
Proper Shipping Name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION (with not less than 8% but less than 60% hydrogen peroxide)	HYDROGEN PEROXIDE, AQUEOUS SOLUTION	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Class	5.1 (Oxidising substance)	5.1	5.1
Packing Group	II	II	II
Marine Pollutant	No	No	N/A
Tunnel Restriction	E (ADR tunnel code)	N/A	N/A
EmS (Sea)	N/A	F-H, S-Q	N/A
Special Provisions	Verify current ADR requirements	Verify current IMDG code	Verify current IATA DGR

UN 2014 applies to aqueous solutions 8% to less than 60% H₂O₂ (PG II). Higher concentrations (≥60%) are classified UN 2015 (PG I) — verify with supplier and carrier. Use UN-certified packaging. Check current regulations before shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP

Registered under REACH (EC No. 1907/2006). Classified and labelled under EU CLP Regulation (EC No. 1272/2008) in accordance with the classification in Section 2.

OSHA (USA)

Prepared in OSHA HCS/HazCom 2012 aligned 16-section SDS format. Listed on TSCA inventory. IDLH: 75 ppm (NIOSH).

India

Classified as a hazardous chemical under the Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989 (amended).



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Observe applicable CPCB, SPCB, Factories Act and Hazardous Waste Management Rules.

Other Jurisdictions

Canada WHMIS 2015/HPR: classify and label per Section 2; bilingual SDS/label required for Canadian sale. Australia AICS: check inventory status. China GB/T: comply with applicable GB standards. GCC: observe GHS-aligned local requirements. Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions.

SECTION 16 OTHER INFORMATION

Prepared By	Supreme Petro Chemicals — Technical Department
SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16-section format
Revision Date	24 June 2026
Version	3.0 (supersedes prior issues)
Disclaimer	Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is responsible for safe use, handling and compliance.

FULL TEXT OF H-STATEMENTS

- H271 — May cause fire or explosion; strong oxidiser
- H302 — Harmful if swallowed
- H311 — Toxic in contact with skin
- H314 — Causes severe skin burns and eye damage
- H318 — Causes serious eye damage
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- H412 — Harmful to aquatic life with long lasting effects