

SAFETY DATA SHEET

HYDROGEN PEROXIDE (FOOD GRADE, 35%)

CAS No.: 7722-84-1

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	Hydrogen Peroxide (Food Grade, 35%)
CAS Number	7722-84-1
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word	Danger
HAZARD CLASSIFICATION • Oxidizing liquid - Category 1 • Skin corrosion - Category 1A • Serious eye damage - Category 1 • Acute toxicity, oral - Category 4 • Acute toxicity, inhalation - Category 4 • Specific target organ toxicity, single exposure - Category 3 (respiratory irritation)	
HAZARD STATEMENTS • H271 - May cause fire or explosion; strong oxidizer • H302 - Harmful if swallowed • H314 - Causes severe skin burns and eye damage • H332 - Harmful if inhaled • H335 - May cause respiratory irritation	
PRECAUTIONARY STATEMENTS • P210 - Keep away from heat, sparks, open flames and hot surfaces; no smoking • P220 - Keep/store away from clothing and combustible materials • P260 - Do not breathe mist or vapours • P280 - Wear protective gloves/eye protection/face protection • P283 - Wear fire/flamm-resistant clothing • P301+P330+P331 - IF SWALLOWED: rinse mouth; do NOT induce vomiting • P303+P361+P353 - IF ON SKIN: remove contaminated clothing immediately and rinse skin with water • P304+P340 - IF INHALED: remove 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; continue rinsing • P310 - Immediately call a POISON CENTER or doctor • P371+P380+P375 - In case of major fire and large quantities, evacuate the area and fight fire remotely due to explosion risk • P420 - Store away from other materials • P501 - Dispose of contents/container in accordance with local regulations	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Hydrogen Peroxide (Food Grade, 35%)
CAS Number	7722-84-1
Physical State	Liquid
Appearance / Odour	Colorless, clear liquid with a slightly pungent/acrid odor.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing and get immediate medical attention.
Skin Contact	Remove contaminated clothing immediately and rinse skin thoroughly with water for at least 15 minutes; seek medical attention (temporary skin whitening/bleaching may occur).
Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing; seek medical attention if symptoms occur.
Ingestion	Rinse mouth with water; do NOT induce vomiting; give water to drink if conscious; seek immediate medical attention due to risk of internal tissue damage and gas release.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Flood with large amounts of water; use water spray to cool fire-exposed containers.
Unsuitable Extinguishing Media	Dry chemical, foam or CO2 alone may not adequately control the oxidizer-fed fire or associated decomposition.
Special Hazards	Strong oxidizer that can intensify fire; decomposes exothermically releasing oxygen and heat, which can support combustion of other materials and cause container rupture or explosion; fight large fires from a safe/remote distance with full PPE and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Measures	Ventilate the area, dilute spilled material with large amounts of water, keep away from combustible and organic materials, avoid confined spaces due to oxygen enrichment/pressure buildup, and do not return spilled product to its original container.
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7. HANDLING AND STORAGE

Handling Precautions	Keep away from combustible materials, organics, metals and heat sources; use only with adequate ventilation; use compatible (non-reactive) equipment; avoid contamination that could trigger rapid decomposition.
Storage Conditions	Store in vented, compatible containers (e.g., HDPE or specific-grade aluminum) in a cool, well-ventilated area away from combustibles, reducing agents, metals and direct sunlight; keep containers vented to relieve internal pressure from slow decomposition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	OSHA PEL / ACGIH TLV ~1 ppm TWA; use chemical-resistant gloves (e.g., PVC, neoprene), face shield/chemical goggles, and respiratory protection where vapor/mist exceeds exposure limits.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance / Odour	Colorless, clear liquid with a slightly pungent/acrid odor.
Boiling Point	~108-114 C (35% aqueous solution)
Melting Point	~-33 C (freezing point)
Flash Point	Not applicable (non-flammable but a strong oxidizer)
Density / Specific Gravity	~1.13 g/cm3 at 20 C
Water Solubility	Miscible with water in all proportions
pH Value	~1-3 (acidic, stabilized solution)

10. STABILITY AND REACTIVITY

Stability	Stable when properly stabilized and stored; decomposes on contact with contaminants such as metals, organics or alkalis, releasing oxygen and heat with potential for violent decomposition and pressure buildup.
Incompatible Materials	Reducing agents, combustible/organic materials, metals (iron, copper, chromium, manganese, etc.), alkalis and other strong oxidizers.
Hazardous Decomposition	Oxygen gas and water; decomposition is exothermic and can become self-accelerating/violent if the solution is contaminated or overheated.

11. TOXICOLOGICAL INFORMATION

Summary	Corrosive, causing severe skin burns and eye damage; harmful if swallowed or inhaled and may cause respiratory tract irritation and bleaching of contacted tissue; oral toxicity is concentration-dependent; not classified as a human carcinogen based on available data, though high chronic exposure has shown tumor-promoting effects in some animal studies.
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12. ECOLOGICAL INFORMATION

Summary	Rapidly decomposes to water and oxygen in the environment and is not persistent or bioaccumulative, but can be acutely toxic to aquatic organisms at spill concentrations due to its oxidizing action.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dilute with large volumes of water or use an authorized catalytic decomposition/neutralization process before disposal in accordance with local regulations; do not mix with combustible waste.
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14. TRANSPORT INFORMATION

UN Number	UN2014
Transport Hazard Class	Class 5.1 (Oxidizer), subsidiary risk Class 8 (Corrosive)
Packing Group	II

15. REGULATORY INFORMATION

Notes	Food-grade material must meet FCC/JECFA purity specifications; classified as an oxidizing, corrosive substance under GHS, OSHA HCS and EU CLP; regulated for transport under IMDG/ADR/IATA as UN2014, Class 5.1 (subsidiary 8), Packing Group II; residual peroxide must be reduced to permitted limits before food use per applicable food safety regulations.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

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