



Gujarat Alkalies and Chemicals Ltd.

Vadodara

SECTION 1: Product and Company Identification			
Name		HYDROGEN PEROXIDE	
Company		M/s Gujarat Alkalies and Chemicals Limited, P.O. Petrochemicals, Dist.: - Vadodara, Gujarat (India), Pin Code: 391346	
Synonyms		Hydrogen Dioxide; Peroxide; Carbamide Peroxide	
Emergency Contact Details		Phone no.	09979897101, 09879604102
		E-mail	headmarketing@gacl.co.in ccr@gacl.co.in
SECTION 2: Hazards Identification			
Emergency Overview			
		DANGER Harmful if swallowed. Risk of serious damage to eyes. Oxidizing liquids Acute toxicity, Skin corrosion	
Potential Health Effects			
Inhalation	Acute toxicity		
Skin	Skin corrosion		
Eyes	Serious eye damage		
Ingestion	Rinse mouth Do NOT induce vomiting		
Spills	Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.		
Storage	May cause fire or explosion; strong oxidizer.		
Disposal	Dispose of contents/container to an approved waste disposal plant		
SECTION 3: Composition/information on ingredients			
Component	CAS-No.	EC-No.	Weight %
Hydrogen Peroxide	7722-84-1	231-765-0	30 - 50 %
Water	7732-18-5	231-791-2	50 - 70 %
SECTION 4: First Aid Measures			
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.		
Skin	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.		
Eyes	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.		

Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms/effects	May cause fire or explosion; strong oxidizer. Harmful if swallowed. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects
Notes to Physician	No data available

SECTION 5: Fire Fighting Measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		
Flash Point	No data available	Explosion Limits	
Auto ignition Temperature	No data available	Upper	No data available
		Lower	No data available
Hazardous Combustion Products	Hydrogen oxygen		
Specific Hazards Arising from the Chemical	Corrosive Material. Containers may explode when heated. Oxidizer: Contact with combustible/organic material may cause fire. In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead to release of irritating gases and vapors.		
NFPA: Health: 2	Flammability: 0	Reactivity: 3	Special hazards: OX

SECTION 6: Accidental Release Measures

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with the skin and the eyes. Do not use steel or aluminium tools or equipment
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

SECTION 7: Handling and Storage

Handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. To maintain product quality. Keep refrigerated. Keep away from direct sunlight. Do not store in metal containers. Containers should be vented periodically in order to overcome pressure buildup.

SECTION 8: Exposure Controls/Personal Protection

Exposure Guidelines:

Component	OSHA PEL	ACGIH TLV
Hydrogen Peroxide	1 ppm TWA	1 ppm TWA

Engineering Measures	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. Face shield. Use equipment for eye protection tested and approved under appropriate government standards.
Skin and body 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. Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate use respirator cartridges as a backup to engine protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: Physical and Chemical Properties

Appearance	Clear colorless liquid	Water solubility	Miscible with water
Odour	Slightly sharp	Auto-ignition temperature	No data available
pH	3.3	Viscosity	No data available
Melting point/freezing point	-33 °C	Flammability (solid, gas)	No data available
Initial boiling point and boiling range	108 °C @ 760 mmHg	Decomposition temperature	> 125°C
Vapour pressure	23.3 mmHg @ 30°C	Relative density	1.110 g/cm ³
Vapour density	> 1.00	Oxidizing properties	Strong oxidizing agents

SECTION 10: Stability and Reactivity

Reactive Hazard	No data available.
Stability	Stable under normal conditions. Sensitivity to light.
Conditions to Avoid	Incompatible products. Excess heat. Exposure to light. Combustible material.
Incompatible Materials	Strong oxidizing agents, Metals, Reducing agents, Alcohols, Ammonia, copper, Copper alloys, lead oxides, Cyanides, Sulfides, lead, Acetone, Aluminum,
Hazardous Decomposition Products	Hydrogen, oxygen
Hazardous Polymerization	Hazardous polymerization does not occur.

Hazardous Reactions	None under normal processing.
SECTION 11: Toxicological Information	
Acute toxicity	No data available
Carcinogenicity	Not classifiable as to its carcinogenicity to humans
SECTION 12: Ecological Information	
Eco toxicity	No data available
Other	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.
SECTION 13: Disposal Considerations	
Waste treatment methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
Product	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal facility. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging	Dispose of as unused product.
SECTION 14: Transport Information	
UN number	2014
UN proper shipping name	Hydrogen peroxide, aqueous solutions
Transport hazard class	5.1 (8)
Packaging group	II
Environmental hazards	No
SECTION 15: Regulatory Information	
To align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)	
SECTION 16: Other Information	
<p>Disclaimer</p> <p>The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.</p>	