



Registered Name: **BizinBiz Technologies Private Limited**

Registered Address: 3/8 2nd Floor, Asaf Ali Road, Above Dabur

India Pvt. Ltd., New Delhi, India, 110002

CIN: U24290DL2021PTC382855 | **GST: 07AAJCB9425C1ZR**

IEC: AAJCB9425C

MATERIAL SAFETY DATA SHEET

Elchemy urges the customers receiving this Material Safety Data Sheet (MSDS) to study it carefully to become aware of hazards, if any, of the product involved. In the interest of Safety, you should notify your employee, agent & contractors about the information on this sheet, furnish a copy of each of your customers for the product, and request your customers to inform their employees and customers as well.

SECTION 1: Identification

Product Name	Hydrogen peroxide, 50 wt% solution in water
CAS-No Synonyms	7722-84-1 Carbamide Peroxide; Hydrogen Dioxide; Peroxide
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Supplier: Elchemy

Company Address: A-448, Pocket 2, Sector 8, Rohini, New Delhi, Pin Code: 110085, India

Company Web Site: www.elchemy.com

Emergency Phone Number: +919867099519 (24 Hrs)

Email Id: info@elchemy.com

SECTION 2: Hazards identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing liquids	Category 2
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Acute oral toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/Irritation	Category 1
A Serious Eye Damage/Eye Irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system, Central nervous system (CNS).	

Label Elements

Signal Word Danger

Hazard Statements

- May cause fire or explosion; strong oxidizer
- Causes severe skin burns and eye damage

Precautionary Statements

Prevention

- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wear protective gloves/protective clothing/eye protection/face protection
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- Keep/Store away from clothing/ other combustible materials
- Take any precaution to avoid mixing with combustibles

Response

- Immediately call a POISON CENTER or doctor/physician

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing



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Skin

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse

Eyes

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

Storage

- Store locked up
- Store in a well-ventilated place. Keep container tightly closed

Disposal

- Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

- None identified

SECTION 3: Composition/information on ingredients

Component	CAS NO	Weight %
Hydrogen peroxide	7722-84-1	50-60
Water	7732-18-5	40-50

SECTION 4: First aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.



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Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Call a physician immediately.

Inhalation If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately.

Ingestion Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Most important symptoms and effects Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

Notes to Physician Treat symptomatically

SECTION 5: Fire fighting measures

Suitable Extinguishing Media CO₂, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point No information available

Method - No information available

Autoignition Temperature No information available

Explosion Limits Upper 100%
Lower 40%

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes.



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Hazardous Combustion Products Hydrogen. Thermal decomposition can lead to release of irritating gases and vapors. Oxygen.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA Health	Flammability	Instability	Physical Hazards
3	0	1	OX

SECTION 6: Accidental release measures

Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Should not be released into the environment.

Environmental Precautions

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Handling Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Do not store near combustible materials. To maintain product quality. Keep refrigerated.

SECTION 8: Exposure controls/personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
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Hydrogen peroxide	TWA: 1 ppm	(Vacated) TWA: 1 ppm (Vacated) TWA: 1.4 mg/m ³ TWA: 1 ppm TWA: 1.4 mg/m ³	IDLH: 75 ppm TWA: 1 ppm TWA: 1.4 mg/m ³	TWA: 1 ppm
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Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

- **Eye/face Protection** Tight sealing safety goggles. Face protection shield.
- **Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure.
- **Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- **Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Slight
Odor Threshold	No information available
pH	1-4
Melting Point/Range	-52 °C/ -61.6 °F
Boiling Point/Range	114 °C / 237.2 °F @ 760 mmHg
Flash Point	No information available



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Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	100%
Lower	40%

Vapor Pressure 2.4 kPa @ 30 °C

Vapor Density 1.10

Specific Gravity 1.200

Solubility miscible

Partition coefficient; n-octanol/water No data available

Autoignition Temperature No information available

Decomposition Temperature	> 125°C
Viscosity	No information available
Molecular Formula	H2 O2
Molecular Weight	34

SECTION 10: Stability and reactivity

Reactive Hazard Yes

Stability Stable under normal conditions. Oxidizer: Contact with combustible/organic material may cause fire.

Conditions to Avoid Excess heat. Incompatible products. Combustible material.

Incompatible Materials Acids, Strong oxidizing agents, Alcohols, Alkaline, Ammonia, Organic materials, Sulfides, Cyanides, lead oxides, Lead, Acetone, Acid anhydrides, Metals, copper, Reducing Agent, Finely powdered metals, Strong reducing agents, Combustible material



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Hazardous Decomposition Products Hydrogen, Thermal decomposition can lead to release of irritating gases and vapors, Oxygen

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing

SECTION 11: Toxicological information

Acute Toxicity

Product Information

- **Oral LD50** Category 4. ATE = 300 - 2000 mg/kg.
- **Dermal LD50** Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
- **Vapor LC50** Category 4. ATE = 10 - 20 mg/l. Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen peroxide	376 mg/kg (Rat) (90%) 910 mg/kg (Rat) (20-60%) 1518 mg/kg (Rat) (8-20% sol)	> 2000 mg/kg (Rabbit)	LC50 = 2000 mg/ m3 (Rat) 4 h
Water	-	-	-

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

- **Irritation** Causes burns by all exposure routes
- **Sensitization** No information available
- **Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
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Hydrogen peroxide	7722-84-1	Not listed	Not listed	A3	Not listed	A3
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed

IARC: (International Agency for Research on Cancer)

- Group 1 - Carcinogenic to Humans
- Group 2A - Probably Carcinogenic to Humans
- Group 2B - Possibly Carcinogenic to Humans

ACGIH: (American Conference of Governmental Industrial Hygienists)

- A1 - Known Human Carcinogen
- A2 - Suspected Human Carcinogen
- A3 - Animal Carcinogen

Mexico - Occupational Exposure Limits - Carcinogens

- A1 - Confirmed Human Carcinogen
- A2 - Suspected Human Carcinogen
- A3 - Confirmed Animal Carcinogen
- A4 - Not Classifiable as a Human Carcinogen
- A5 - Not Suspected as a Human Carcinogen

Mutagenic Effects Mutagenic effects have occurred in experimental animals.

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system Central nervous system (CNS)

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and delayed Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus



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should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

Endocrine Disruptor Information No information available

Other Adverse Effects No information available

SECTION 12: Ecological information

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Contains a substance which is: Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Hydrogen peroxide	EC50 2.5 mg/L/72h	LC50: 16.4 mg/L/96h (P.promelas)	Not listed	EC50 7.7 mg/L/24h

Persistence and Degradability Soluble in water Persistence is unlikely based on information available. Miscible with water

Bioaccumulation/ Accumulation No information available.

Mobility. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Hydrogen peroxide	-1.1

SECTION 13: Disposal considerations

Waste Disposal 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.



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Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Tetrachloroethylene	U210	--

SECTION 14: Transport information

DOT	
UN-No	UN2014
Proper Shipping Name	HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS
Hazard Class	5.1
Packing Group	II
TDG	
UN-No	UN2014
Proper Shipping Name	HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS
Hazard Class	5.1
Subsidiary Hazard Class	8
Packing Group	II
IATA	
UN-No	UN2014
Proper Shipping Name	HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS
Hazard Class	5.1
Subsidiary Hazard Class	8
Packing Group	III
IMDG/IMO	
UN-No	UN2014
Proper Shipping Name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Hazard Class	5.1
Subsidiary Hazard Class	8
Packing Group	II



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SECTION 15: Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Hydrogen peroxide	7722-84-1	X	-	204-765-0	X	X	X	X	KE-20204
Water	7732-18-5	-	231-791-2	X	X	KE-35400			

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories CWA (Clean Water Act)	See section 2 for more information Not applicable
Clean Air Act OSHA Occupational Safety and Health Administration	Not applicable Not applicable

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Hydrogen peroxide	-	TQ: 7500lb

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Hydrogen peroxide	-	1000 lb

California Proposition 65 This product contains the following proposition 65 chemicals

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Hydrogen peroxide	X	Yes	Yes	No -	Yes
Water	-	-	Yes	No -	No -



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U.S. Department of Transportation

- Reportable Quantity (RQ) : N
- DOT Marine Pollutant : N
- DOT Severe Marine Pollutant : N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Component	DHS Chemical Facility Anti-Terrorism Standard
Hydrogen peroxide	Theft STQs - 400lb (concentration > 35%)

Other International Regulations

Mexico - Grade No information available

SECTION 16: Other information:

MANUFACTURERS / SUPPLIERS DATA

Name of the firm	BizinBiz Technologies Private Limited,	
Mailing Address	A-2/448, Rohini, Sector 8 New Delhi, 110085	
Telephone Nos.	+91 98670 99519	
Rev No : 03 (01/12/2020)		

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