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Product Name: Hydrogen peroxide

CAS No.: 7722-84-1

Version: 0

Product Code :	90172, 90424, 90425, 90	0426	
Company Name :	Advent Chembio Private	Limited	
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E-mail :	info@adventchembio.co	<u>m</u>	
WEBSITE :	www.adventchembio.com	<u>m</u>	
Company Phone Number :	022-27690837		
2. Composition/Information on In	gredients		
Ingredient	CAS No	Percent	
HYDROGEN PEROXIDE	7722-84-1	6-50 %	
Iazard classificationPhysical hazardsDxidizing liquidsIealth hazardsAcute toxicity (Oral)Acute toxicity (Inhalation - vapor)Acute toxicity (Inhalation - vapor)Bernous eye damage/eye irritationBerm cell mutagenicityDecific target organ toxicity - singleAppendix to the aquaticAcute hazards to the aquaticnvironmentLabels elements	: Category 2 : Category 4 : Category 3 : Category 1 : Category 1 : Category 1 : Category 3 : Category 3		
Hazard symbol Signal word Hazard statement	 Danger May intensify firet Toxic if inhaled. Harmful if swallov Causes severe skin May cause respira 	wed. 1 burns and eye damage.	



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Precautionary statement	May cause genetic defects. Causes damage to organs if swallowed. Toxic to aquatic life.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat No smoking. Keep/Store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. Wash thoroughly after handling. Do not breathe dust/mist/vapors. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Avoid release to the environment.
Response	: In case of fire: Use water spray, foam, dry powder or carbon dioxide for extinction. IF exposed: Call a POISON CENTER or doctor/physician. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Storage	: Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification	: None.

4. First Aid Measures	
General information	: Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
Ingestion	: Call a physician or poison control center immediately. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Inhalation	: Move to fresh air. Call a physician or poison control center immediately. If breathing is difficult, give oxygen. Apply artificial respiration if victim is not breathing.
Skin contact	: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing



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before reuse. Destroy or thoroughly clean contaminated shoes. Eye contact Immediately flush with plenty of water for at least 15 minutes. If : easy to do, remove contact lenses. Call a physician or poison control center immediately. In case of irritation from airborne exposure, move to fresh air. Get medical attention immediately . Most important symptoms/effects, Harmful if swallowed. Toxic if inhaled. Corrosive to skin and eyes. : acute and delayed **Indication of immediate medical** Treat symptomatically. Symptoms may be delayed. : attention and special treatment needed

5. Fire fighting measures

General fire hazards Suitable (and unsuitable) extinguish	: Strong oxidizer - contact with other material may cause fire. ing media
Suitable extinguishing media	: Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media Specific hazards arising from the chemical Special protective equipment and pr	 None known. Strong oxidizer. Contact with combustible material may cause fire. Pressurized container may explode when exposed to heat or flame. Precautions for firefighters
Special fire fighting procedures	: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.
Special protective equipment for fire-fighters	: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.



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6. Accidental Release Measures		
Personal precautions, protective equipment and emergency procedures	: Keep unauthorized personnel away. Use personal protective equipment. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.	
Methods and material for containment and cleaning up	: Eliminate all ignition sources if safe to do so. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.	
Notification Procedures	: Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.	
Environmental precautions	: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.	

7. Handling and Storage		
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Wash hands thoroughly after handling. Do not get in eyes, on skin, on clothing. Keep away from combustible material. Do not taste or swallow. Do not eat, drink or smoke when using the product. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.	re use. Use personal nds thoroughly after ing. Keep away from . Do not eat, drink or lle, store or open near
Conditions for safe storage, including any incompatibilities	: Keep away from heat. Keep away from sources of ignition - No smoking. Keep away from combustible material. Keep container tightly closed. Store in a well-ventilated place. Store in a dry place.	



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8. Exposure Controls Personal Protection

Control parameters Occupational exposure limits

Chemical identity	Туре	Exposure Limit values	Source
HYDROGEN PEROXIDE	TWA	1 ppm	US. ACGIH Threshold Limit Values (2011).
	REL	1 ppm, 1.4 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards
			(2010)
	PEL	1 ppm, 1.4 mg/m3	US. OSHA Table Z-1 Limits for Air
			Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1 ppm, 1.4 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
			(1989)

 Appropriate engineering controls
 : No data available.

Individual protection measures, such as personal protective equipment

General information	:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area.
Eye/face protection	:	Wear safety glasses with side shields (or goggles) and a face shield.
Hand protection	:	Chemical resistant gloves.
Other	:	Wear appropriate clothing to prevent reasonably probable skin contact.
Respiratory protection	:	In case of inadequate ventilation use suitable respirator. Chemical respirator with acid gas cartridge.
Hygiene measures	:	Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

9. Physical and Chemical Properties

Appearance Odor pH Melting point/freezing point Initial boiling point and boiling	:	Colorless Liquid Mild pungent. 3.3 -25 °C. 108 °C.
range Flash Point Vapor pressure Vapor density Relative density	: : :	Not applicable. 3.33 kPa 1.17 1.11 (20 °C) .



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Solubility in water Solubility (other)	Miscible with water.No data available.
Formula	: H ₂ O ₂
Molecular Weight	: 34.01 g/mol

10. Stability and Reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable; however, may decompose if heated.
Possibility of hazardous reactions	:	Hazardous polymerization does not occur. Decomposes on heating.
Conditions to avoid	:	Heat. Light. Contact with combustibles. Contact with incompatible materials.
Incompatible materials	:	Organic compounds. Reducing agents. Flammable/combustible material
Hazardous decomposition products	:	May decompose upon heating to produce corrosive and/or toxic fumes.

11. Toxicological Information

Information on likely routes of exposureIngestion:May cause burns of the gastrointestinal tract if swallowed.Inhalation:Skin contact:Causes severe skin burns.

Eye contact : Causes serious eye damage.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product	:	No data available.
Dermal Product	:	LD 50 (Rat, Male): 1,193 mg/kg LD 50 (Rat, Female): 1,270 mg/kg.
Inhalation Product	:	No data available.
Repeated dose toxicity Product	:	No data available.
Skin corrosion/irritation Product	:	Causes severe skin burns.
Serious eye damage/eye irritation Product	:	Causes serious eye damage.
Respiratory or skin sensitization	:	Not a skin sensitizer.
Product		
Carcinogenicity Product	:	Suspected of causing cancer.
IARC Monographs on the	:	No carcinogenic components identified.
Evaluation of Carcinogenic Risks to Humans DIOXANE		
US. National Toxicology Program	:	No carcinogenic components identified.
(NTP) Report on Carcinogens		
DIOXANE		
US. OSHA Specifically Regulated	:	No carcinogenic components identified.



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1050		
Germ cell mutagenicity		
In vitro Product	:	May cause genetic defects.
In vivo Product	:	May cause genetic defects.
Reproductive toxicity Product	:	No components toxic to reproduction.
Specific target organ toxicity -	:	Lungs. Respiratory tract irritation.
single exposure Product		
Specific target organ toxicity -	:	None known.
repeated exposure Product		
Aspiration hazard Product	:	Not classified.
Other effects	:	None known.

12. Ecological Information

Ecotoxicity							
Acute hazards to the aquatic environment :							
Fish Product	:	No data available.					
Specified substance(s):	:	LC 50 (Chameleon goby (Tridentiger trigonocephalus), 24 h): 155					
HYDROGEN PEROXIDE		mg/l Mortality					
		LC 50 (Jack Mackerel (Trachurus japonicus), 24 h): 89 mg/l					
		Mortality .					
Aquatic invertebrates Product	:	No data available.					
Chronic hazards to the aquatic environment :							
Fish Product	:	No data available.					
Aquatic invertebrates Product	:	No data available.					
Toxicity to Aquatic Plants Product:	:	: No data available.					
Persistence and degradability							
Biodegradation Product	:	Expected to be readily biodegradable.					
BOD/COD ratio Product	:	No data available.					
Bioaccumulative potential							
Bioconcentration factor (BCF)	:	No data available on bioaccumulation.					
Product							
Partition coefficient n-octanol /	:	No data available.					
water (log Kow) Product							
Mobility in soil	:	The product is water soluble and may spread in water systems.					
Other adverse effects	:	Toxic to aquatic life.					



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13. Disposal consideration	
Disposal instructions	: Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated packaging	: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 2014	Hydrogen peroxide, aqueous solutions	5.1, 8	Π	No
IMDG	UN 2014	Hydrogen peroxide, aqueous solutions	5.1, 8	II	No
ΙΑΤΑ	UN 2014	Hydrogen peroxide, aqueous solutions	5.1, 8	II	No

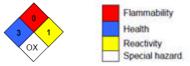
15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

16. Other Information

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe OXY: Oxidizer



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