

Safety Data Sheet

SECTION 1: Identification

Product Name	Hydrogen Peroxide, 30% w/w, ACS Reagent Recommended Storage: 2°C - 8°C (36°F - 46°F).		
Product Code	C1214600		
Recommended Uses	General use.		
Uses Advised Against	Not intended for drug, food or household use.		
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SECTION 2: Hazard(s) Identification

Acute toxicity Oral (Category 4)
 Serious eye damage/eye irritation (Category 1)
 Skin corrosion/irritation (Category 1)
 Oxidizing liquids (Category 2)

Hazards not otherwise classified or covered by GHS

None identified.

Signal Word

DANGER

Hazard Statements

Harmful if swallowed. Causes severe skin burns and serious eye damage. May intensify fire; oxidizer.

Precautionary Statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. - No smoking. Keep away from clothing and other combustible materials. Do not breathe mist, vapors or spray. Wash areas of contact/exposure thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and clothing and eye protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical help. IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. In all cases of contact: Get emergency medical help immediately. In case of fire: Use dry chemical, foam or carbon dioxide for extinction. Store locked up. Dispose of contents/container in accordance with local, state, federal and international regulations.



SECTION 3: Composition / Information on Ingredients

Component Name	Component Number CAS	Component Number EC	Component Weight %
Hydrogen peroxide	7722-84-1	231-765-0	30
Water	7732-18-5	231-791-2	Remainder

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SECTION 4: First-Aid Measures

General Advice	Show this SDS to attending physician if medical treatment is needed.
Skin Contact	Immediately wash affected area with soap and water while removing contaminated clothing . Seek medical attention if there is any evidence of skin damage or persistent irritation.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Seek immediate medical attention.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is difficult or labored , seek medical attention.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or physician.
Symptoms/effects	The most important known symptoms/effects are described in Section 2 of this Safety Data Sheet.
Treatment	Treat symptomatically.

SECTION 5: Fire-Fighting Measures

Extinguishing Media	Substance is not flammable, use agent most appropriate to extinguish surrounding fire (water, carbon dioxide, dry chemical, sand/earth, foam).
Specific Hazards	Thermal decomposition may produce toxic or irritating fumes.
Actions for Firefighters	As with any chemical involved in a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 6: Accidental Release Measures

Precautions and Procedures	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate unprotected personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental Precautions	As with any chemical, avoid release to the environment for the responsible stewardship of our planet.
Containment and Clean Up	Remove all sources of ignition. Have fire extinguishing agent available. Use only non-sparking tools and explosion-proof equipment. Wear respiratory protection, gloves, eye protection and protective clothing. Contain and absorb with inert absorbent material or vacuum up spillage and collect in suitable lidded container for disposal.

Section 7: Handling and Storage

Handling	Follow good hygiene procedures when handling chemical materials. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use personal items when handling this substance. Wear gloves, protective clothing and eye protection when handling this substance.
Storage	Keep containers tightly closed in a cool, dry and well-ventilated place. Protect from freezing and physical damage. Store separately from incompatible materials. Store locked up.

Section 8: Exposure Controls / Personal Protection

Engineering Controls	As part of safe chemical handling, emergency eye wash fountains and safety showers should be available in handling areas. Provide sufficient ventilation measures to keep the airborne concentration below the applicable workplace exposure limits.
Exposure Limits	Hydrogen peroxide PEL-TWA 1.4 mg/m ³ US-OSHA
Exposure Limits	Hydrogen peroxide REL-TWA 1 ppm US-NIOSH
Exposure Limits	Hydrogen peroxide TLV-TWA 1 ppm US-ACGIH
Eye Protection	Wear safety glasses with side shields or safety goggles. Wear face shield if there is risk of splashes.
Skin Protection	Wear chemical resistant gloves and protective clothing.
Respiratory Protection	Where exposure limits are exceeded and cannot be adequately controlled by other engineering means (such as a chemical fume hood), wear respiratory protection.

Section 9: Physical and Chemical Properties

Physical State	Liquid
Appearance/Color	Colorless
Odor	Odorless
Odor Threshold	Not applicable.
Melting/Freezing Point	-26°C
Boiling Point/Range	106°C
Flammability	Not flammable
Flammable/Explosive Limits	Not applicable
Flash Point	Not applicable
Auto-Ignition Temperature	Not applicable
Decomposition Temperature	Decomposes at all temperatures
pH	1 - 4
Viscosity	Data not available

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Solubility (in water)	Miscible
Partition Coefficient (n-octanol/water)	Data not available
Relative Density	1.11
Vapor Pressure	Data not available
Vapor Density	Data not available
Evaporation Rate	Data not available
Particle Characteristics	Not applicable.

Section 10: Stability and Reactivity

Reactivity	May react or decompose violently and exothermically with readily oxidizable materials, alkaline substances and most metals.
Chemical Stability	Stable under normal conditions of handling and storage.
Hazardous Reactions	Contact with combustible materials may result in their spontaneous ignition. Solutions containing over 30% hydrogen peroxide can detonate when mixed with organic solvents (such as acetone, ethanol, glycerol); the violence of the explosion increases with increasing concentration of the hydrogen peroxide.
Conditions to Avoid	Avoid contact with incompatible materials.
Incompatible Materials	Combustibles.
Hazardous Decomposition	Thermal decomposition can generate oxygen.

Section 11: Toxicological Information

Acute Toxicity - Oral	LD50 (rat) 376 mg/kg
Acute Toxicity - Dermal	LD50 (rat) 4060 mg/kg
Acute Toxicity - Inhalation	LC50 (rat) 2000 mg/m ³ /4H
Skin Corrosion/Irritation	Causes severe skin burns.
Eye Damage/Irritation	This material can cause serious eye damage.
Respiratory Sensitization	Not expected to cause respiratory sensitization.
Skin Sensitization	Not expected to cause skin sensitization.
Germ Cell Mutagenicity	Based on available data, this substance does not meet the criteria set forth for classification as causing germ cell mutagenicity.
Carcinogenicity	This material has not been identified as a carcinogen by IARC or NTP.
Reproductive Toxicity	Based on available data, this substance does not meet the criteria set forth for classification as a reproductive toxin.
STOT Single Exposure	None known.
STOT Repeated Exposure	None known.
Aspiration Hazard	This substance is not considered to be an aspiration hazard.
Other Information	No additional information available.

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Section 12: Ecological Information

Toxicity Values	LC50 (Lepomis macrochirus) 150 ppm/96H
Persistence/Biodegradability	The methods for determining biological degradability do not apply to inorganic substances.
Bioaccumulation Potential	Not expected to bioaccumulate.
Mobility in Soil	Expected to decompose rapidly in soil.
Other Adverse Effects	None known.

Section 13: Disposal Considerations

Discharge, treatment, or disposal may be subject to national, state, regional or local laws. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose in accordance with national, state, regional and local regulations.

Section 14: Transport Information

UN Number	UN2014
Proper Shipping Name, Hazard Class	HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS, 5.1 (8)
Packing Group	II
Marine Pollutant	Not classified as a marine pollutant.

Section 15: Regulatory Information

USA TSCA	All components are on or in compliance with the inventory.
USA SARA 302/304	No components are listed.
USA SARA 311/312	No components are listed.
USA SARA 313 (TRI)	No components are listed.
Canada DSL/NDSL	All components are on or in compliance with DSL.
California Proposition 65	This product contains no substances on the list.

Section 16: Other Information

Acronyms	ACGIH	American Conference of Governmental Industrial Hygienists (USA)
	ATE	Acute Toxicity Estimate (calculated toxicity value)
	BCF	Bioconcentration Factor
	CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (USA)
	DOT	Department of Transportation (USA)
	DSL	Domestic Substances List (Canada)
	EHS	Extremely Hazardous Substance
	EPA	Environmental Protection Agency (United States)
	GHS	Globally Harmonized System
	IARC	International Agency for Research on Cancer
	IDLH	Immediately Dangerous to Life and Health
	NTP	National Toxicology Program (USA)
	OSHA	Occupational Safety and Health Administration (USA)
	PEL	Permissible Exposure Limit
	PNOR	Particulates Not Otherwise Classified
	PPE	Personal Protective Equipment
	ppb	Parts per billion
	ppm	Parts per million
	RQ	Reportable Quantity
	SARA	Superfund Amendments and Reauthorization Act (USA)
	TLV	Threshold Limit Value
	TPQ	Threshold Planning Quantity
	TRI	Toxic Release Inventory (USA)
	TSCA	Toxic Substances Control Act (USA)
	TWA	Time Weighted Average
	UN	United Nations

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