

Safety Data Sheet
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Hydrogen Peroxide, 30% ACS	
NCL Catalog Number	H-37	
Product Description	Laboratory chemical	
Supplier	NCL of Wisconsin, Inc.	PO Box 8, Birnamwood, WI 54414
	Telephone: 1-800-648-7836	Fax: 715-449-2454
	Email: nclabs@nclabs.com	Emergency Contact: 1-800-424-9300 (Chemtrec)

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

Oxidizing Liquids	Category 1
Acute Toxicity	Oral Category 4
Acute Toxicity	Inhalation Category 4
Skin Corrosion	Category 1A



Signal Word

Danger

Hazard Statements

H271	May cause fire or explosion; strong oxidizer.
H302+H332	Harmful if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.

Precautionary Statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep away from clothing and other combustible materials.
P260	Do not breathe mist/vapors/spray.
P264	Wash exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P283	Wear fire resistant or flame retardant clothing.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P312	Call a POISON CENTER or doctor if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P306+P360	IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P371+P380+P375	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P405	Store locked up.

P420
P501

Store separately.
Dispose of contents/container to comply with local, state and federal regulations.

Other Hazards Not Contributing to the Classification

None under normal conditions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity Not applicable
Common Name Not applicable

Mixture

Name	CAS #	Approximate %
Water	7732-18-5	70
Hydrogen Peroxide	7722-84-1	30

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General First Aid Measures Never give anything by mouth to an unconscious person. Seek medical advice if you feel unwell.
If Inhaled Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor if you feel unwell.
In Case of Skin Contact Remove contaminated clothing and shower/wash exposed skin with mild soap and water. Rinse with warm water. Call a POISON CENTER or doctor.
In Case of Eye Contact Immediately flush eyes with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor.
If Swallowed Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

Most Important Symptoms/Effects Acute and Delayed

After Inhalation Dry/sore throat. Coughing. Irritation of the respiratory tract. Respiratory difficulties.
After Skin Contact Tingling/irritation of the skin. Caustic burns/corrosion of the skin.
After Eye Contact Irritation of the eye tissue. Inflammation/damage of the eye tissue. Corrosion of the eye tissue on continuous exposure.
After Ingestion Nausea, vomiting, irritation of the gastric intestinal mucosa. Burns to the gastric/intestinal mucosa, and urine discoloration.

Indication of Immediate Medical Attention and Special Treatment Needed

Seek medical advice.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media Foam. Dry powder. Sand. Carbon dioxide. Water spray.
Unsuitable Extinguishing Media Do not use high pressure water stream.

Special Hazards Arising from the Chemical

Thermal decomposition generates corrosive vapors.

Special Protective Actions for Fire-Fighters

Wear self-contained breathing apparatus and protective clothing. Keep exposed containers cool with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment (see section 8). Safety glasses, gloves, gas/dust mask. Evacuate area of non-essential personnel. Eliminate ignition sources.
Environmental Precautions Prevent entry to surface and ground waters.
Methods and Materials for Containment and Cleaning Up Sweep up into closing containers. Collect spillage. Store away from other materials. Ensure compliance with local, state and federal regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Conditions for Safe Storage Including any Incompatibilities

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Store away from sunlight, which can contribute to instability. Store away from strong oxidizers, strong bases, and strong acids.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Hydrogen Peroxide (7722-84-1)		
USA ACGIH	ACGIH TLV (ppm)	1 ppm
USA OSHA	OSHA PEL (ppm)	1 ppm

Appropriate Engineering Controls

Material should be handled or transferred in a fume hood or with equivalent ventilation. Maintain eye-wash fountain and quick-drench facilities in work area.

Individual Protection Measures

Avoid all unnecessary exposure.

Eye/Face Protection

Use chemical safety goggles and /or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye-wash fountain and quick-drench facilities in work area.

Skin Protection

Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

Respiratory Protection

Wear appropriate mask.

Other Information

Do not eat, drink, or smoke when using this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Clear, colorless
Odor	Sharp odor
Odor Threshold	Not determined
pH	Not determined
Melting Point/Freezing Point	-33°C / Not determined
Initial Boiling Point and Boiling Range	105.6°C
Flash Point	Not determined
Evaporation Rate	> 1
Flammability (Solid, Gas)	Not determined
Upper/Lower Flammability/Explosive Limits	Not determined
Vapor Pressure	24 mm Hg
Vapor Density	Not determined
Relative Density	Not determined
Solubility	Soluble in water.
Partition Coefficient: n-octanol/water	Not determined
Auto-Ignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Reacts slowly with water/air to release toxic and corrosive gases, flammable gases/vapors. Reacts violently with some bases to release heat.
Chemical Stability	Unstable on exposure to moisture and heat.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	Incompatible materials and moisture.
Incompatible Materials	Combustible materials, organic materials, powdered metals, rust and dirt.
Hazardous Decomposition Products	When heated to decomposition, can emit toxic gases, carbon dioxide, gaseous ammonia and corrosive vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity Harmful if swallowed or if inhaled.

Hydrogen Peroxide (7722-84-1)	
LD50 oral rat	1872 mg/kg
Water (7732-18-5)	
LD50 oral rat	>90000 mg/kg

Skin Corrosion/Irritation	Causes severe skin burns.
Serious Eye Damage/Irritation	Causes serious eye damage.
Respiratory or Skin Sensitization	Not classified
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
Specific Target Organ Toxicity (Single Exposure)	Not classified
Specific Target Organ Toxicity (Repeated Exposure)	Not classified
Aspiration Hazard	Not classified
Potential Adverse Human Health Effects and Symptoms	No data available
After Inhalation	Dry/sore throat. Coughing. Irritation of the respiratory tract. Respiratory difficulties.
After Skin Contact	Tingling/irritation of the skin. Caustic burns/corrosion of the skin.
After Eye Contact	Irritation of the eye tissue. Inflammation/damage of the eye tissue. Corrosion of the eye tissue on continuous exposure.
After Ingestion	Nausea, vomiting, irritation of the gastric intestinal mucosa. Burns to the gastric/intestinal mucosa, and urine discoloration.
Other Information	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecology – Water Toxicity	Not applicable.
Persistence and Degradability	Not applicable.
Bioaccumulative Potential	Not established
Mobility in Soil	Not established
Other Adverse Effects	Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Methods of Disposal

Disposal Recommendations	Dispose of contents/containers in accordance with local, state, and federal regulations.
Other Information	Avoid release to the surrounding environment.

SECTION 14: TRANSPORT INFORMATION

UN Number	2014
UN Shipping Name	Hydrogen Peroxide
Transport Hazard Class(es)	8
Packing Group	II
Environmental Hazards	Not applicable
Transport in Bulk	Not applicable
Other Precautions	Not applicable

SECTION 15: REGULATORY INFORMATION

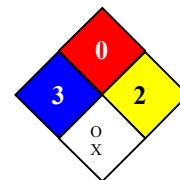
Hydrogen Peroxide (7722-84-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard, Reactivity Hazard, Chronic Health Hazard

SECTION 16: OTHER INFORMATION

Revision Date: 04/08/2015

NFPA Hazards

Health Hazard	3: Short exposure could cause serious temporary or moderate residual injury.
Fire Hazard	0: Materials that will not burn under typical fire conditions.
Reactivity/Instability	2: Undergoes violent chemical changes at elevated temperatures and pressures, reacts violently with water, or may form explosive mixtures with water.
Special Hazard	OX



HMIS III Rating

Health	3: Major injury likely unless prompt action is taken and medical treatment is given.
Flammability	0: Materials that will not burn.
Physical Hazard	2: Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air.
Personal Protection	H

H-37	
Health	3
Flammability	0
Physical Hazard	2
Personal Protection	H

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END OF SAFETY DATA SHEET