

Safety Data Sheet

Hydrogen Peroxide 12%

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Hydrogen Peroxide 12%

Synonyms/Generic Names: Peroxide

Product Number: HPL12, HPF12

Product Use: Industrial, Manufacturing or Laboratory use

Supplier: Lab Alley LLC 22111 : Highway 71 West, Suite 601 Spicewood, Texas 78669 Tel: 512-668-9918

In Case of Emergency Call: Infotrac: 800-535-5053

2. HAZARDS INDENTIFICATION

OSHA Hazards: Oxidizer, Target organ effect, Toxic by ingestion, Corrosive, Carcinogen

Target Organs: Eyes, Skin, Respiratory system

Signal Words: Danger

Pictograms:



GHS Classification

Oxidizing liquids	Category 1
Acute toxicity, Dermal	Category 4
Acute toxicity, Oral	Category 4
Skin corrosion	Category 1
Eye irritation	Category 1
Respiratory sensitizer	Category 1B

GHS Label Elements, including precautionary statements:

Hazard Statements:

H271	May cause fire or explosion; strong oxidizer	
H302	Harmful if swallowed	
H314	Causes severe skin burns and eye damage	
H333	May be harmful if inhaled	
H402	Harmful to aquatic life	

Precautionary Statements:

P220	Keep/store away from clothing/combustible materials.	
P280	Wear protective gloves/protective clothing/eye protection/face protection	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove	
	contact lenses if present and easy to do so. Continue rinsing.	
P310	Immediately call a POISON CENTER or doctor/physician.	

Potential Health Effects

Eyes	May cause serious damage.
Inhalation	Irritating to the respiratory system. Causes irritation to the respiratory tract.
Skin	Irritating to skin. Contact causes redness, burns, itching and pain. Prolonged or repeated
	skin exposure may cause dermatitis.
Ingestion	Causes irritation and pain.

NFPA Ratings

Health	3
Flammability	0
Reactivity	1
Specific hazard	OX

HMIS RatingsHealth3Fire0Reactivity1PersonalD

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Hydrogen Peroxide	12	7722-84-1	231-765-0	H_2O_2	34.01 g/mol
Water	Balance	7732-18-5	231-791-2	H ₂ O	18.00 g/mol

4. FIRST-AID MEASURES

Eyes	In case of eye contact, rinse with plenty of water and seek medical attention immediately.		
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not		
	breathing, give artificial respiration. Get medical attention.		
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated		
	clothing and wash using soap. Get medical attention immediately.		
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If		
	conscious, wash out mouth with water. Get medical attention immediately.		

5. FIREFIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Product is not flammable. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use flooding quantities of water to cool containers.	
Special protective equipment		
and precautions for firefighters	clothing, including eye protection and boots.	
Specific hazards arising from	Product components will burn producing oxygen. (See also Stability and	
the chemical	Reactivity section).	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.	
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.	
Methods and materials for containment and cleaning up	Neutralize spill with sodium bicarbonate or line. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.	

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Isolate from combustible material. Store in the dark. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
Hydrogen Peroxide	1 ppm 1.4 mg/m ³	TLV	ACGIH
	1 ppm 1.4 mg/m ³	PEL	OSHA
	1 ppm 1.4 mg/m ³	REL	NIOSH

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

Personal Protection

Eyes	Wear chemical safety glasses with a face shield for splash protection.	
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.	
Skin	Wear neoprene or nitrile gloves, apron and other protective clothing appropriate to the risk of exposure.	
Other	Not Available	

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear, colorless liquid
Odor	No Odor
Odor threshold	Not Applicable
рН	Not Available
Melting point/freezing point	Not Available
Initial boiling point and boiling range	Not Available
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	Not Available
Solubility (ies)	Completely soluble in water
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Applicable
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable	
Possibility of Hazardous Reactions	Will not occur.	
Conditions to Avoid	Store out of direct light	
Incompatible Materials	Brass, Copper, Powdered metals, Iron, Iron and iron salts, combustible materials	
Hazardous Decomposition Products	Not Available	

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	LD50 Dermal – rat – 4060 mg/kg
Eyes	Not Available
Respiratory	LC50 Vapor – rat – 2000 mg/m – 4 hours
Ingestion	LD50 Oral – mouse – 2000 mg/kg

Carcinogenicity

IARC	3-Group 3: Not classifiable as to its carcinogenicity to humans.	
ACGIH	A3: Confirmed animal carcinogen with unknown relevance to humans.	
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.	
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	

Signs & Symptoms of Exposure

Skin	Redness, burning, itching and pain.
Eyes	Eye burns, pain, watering eyes.
Respiratory	Coughing, shortness of breath, burning, choking, coughing, wheezing, laryngitis, headache
	or nausea.
Ingestion	Causes irritation and pain.

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Not Available
Embryotoxicity	Not Available
Specific Target Organ Toxicity	Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicity

LCOLOXICILY			
Aquatic Vertebrate	Not Available		
Aquatic Invertebrate	Not Availa	able	
Terrestrial	Not Availa	Not Available	
Persistence and Degr	adability	Not Available	
Bioaccumulative Pote	ential	Not Available	
Mobility in Soil		Not Available	
PBT and vPvB Assess	sment	Not Available	
Other Adverse Effects	S	Not Available	

13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.	
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary	
	before disposing of waste product container.	

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	UN2984, Hydrogen peroxide, aqueous solutions 5.1, (8), pg III	
TDG	UN2984, HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS 5.1, (8), PG III	
IMDG	UN2984, HYDROGEN PEROXIDE, AQUEOUS SOLUTIONS 5.1, (8), PG III	
Marine Pollutant	No	
IATA/ICAO	UN2984, Hydrogen peroxide, aqueous solutions 5.1, (8), pg III	

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Not Listed

SARA 302	Listed: Hydrogen Peroxide	
SARA 304	Listed: Hydrogen Peroxide	
SARA 311	Hydrogen Peroxide	
SARA 312	Hydrogen Peroxide	
SARA 313	Listed: Hydrogen Peroxide	
WHMIS Canada	Class C: Oxidizing Material	
	Class D-2B: Toxic Material Causing Other Toxic Effects	

16. OTHER INFORMATION

Revision	Date
Revision 1	11/27/23

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