

SAFETY DATA SHEET

HYDROGEN PEROXIDE 30%

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: 1-905-466-3832
Chemical Name: Hydrogen peroxide 30%
Catalog Number: HYP001

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

Potential health effects:

Inhalation: harmful if inhaled. Causes respiratory tract irritation.
Skin: Harmful if absorbed through skin. Causes skin burns
Eyes: Causes eye irritation
Ingestion: May be harmful if swallowed

SECTION 2 HAZARDS IDENTIFICATION

Emergency overview:

GHS Classification:

Oxidizing liquid: Category 2
Skin corrosion (Category 1A
Serious eye damage (Category 1
Specific target organ toxicity - single exposure (Category 3), Respiratory system

Pictogram



Signal word: Danger

Hazard statements:

H272 May intensify fire: oxidizer
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary statement:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P363 Wash contaminated clothing before reuse.

SECTION 3 COMPOSITION/ INGREDIENTS

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

Molecular Formula: N/A
Molecular Weight: N/A

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
Skin: Flush area immediately with plenty of soap and water.
Inhalation: Remove victim to fresh air. If not breathing give artificial respiration. Get medical attention if symptoms persist.
Ingestion: Wash mouth with water.

SECTION 5 FIRE FIGHTING MEASURES

General Information: Always wear full protective gear in the event of a fire. Toxic gases and vapors may be generated by decomposition or combustion. Excessive dust in combination with air can create an explosive mixture.
Flammable: No
Flash Point: N/A
Flash Point: Non combustible
Extinguishing Media: Use water only. Do NOT use carbon dioxide. Do NOT use dry chemical. Do NOT get water inside containers. Cool containers with flooding quantities of water until well after fire is out. For large fires, flood fire area with large quantities of water, while knocking down vapors with water fog. Contact fire department immediately.
Explosion Data: May decompose explosively when heated or involved in a fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.
Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container. Avoid generating dust.

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SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.

Storage Conditions: Keep away from heat, sparks and flame. Do not store near combustible materials. Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from light. Keep away from alkalis, oxidizable materials, finely divided metals, alcohols and permanganates. Store below 35°C. Store only in light-resistant containers fitted with a safety vent.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

TWA 0.100mg/m³, STEL 6mg/m³

Use adequate ventilation. Avoid dust generation..

Wear appropriate protective equipment to prevent eye and skin exposure.

Wear appropriate respirator to prevent lung irritation.

Personal Protection: Lab coat, safety goggles, rubber gloves.

Ventilation: Use appropriate exhaust ventilation .

Respiratory protection: use OSHA/MSHA approved dust masks.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance and Odor: Clear , colorless, slight acid odor

Freezing/Melting Point: -33°C

Boiling Point: 108° C @ 760 mmHg

Specific Gravity/Density: 1.1 –1.2 (30-50%)

Vapor pressure: 23 mm Hg@30C

Vapor Density: 1.10

Solubility: Miscible in water

pH: 3.3

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal temperatures and pressure

Conditions to avoid: dust generation. Excess heat

Incompatibility: strong reducing agents, powdered metals, organic materials

Hazardous Decomposition Products: Nitrogen oxides, sulfur oxides

Hazardous Polymerization: Will not occur

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

Inhalation, rat: LC50 =2 gm/m³/4H

Oral, mouse: LD50=2 gm/kg

Skin, rat: LD50=4060 mg/kg

Epidemiology: No data available

Teratogenicity: No data available

Reproductive Effects: No data available

Neurotoxicity: No data available

Mutagenicity: Mutation in microorganisms: Salmonella typhimurium =100ug/plate; Human, embryo = 50umol/L; Cytogenetic Analysis: Human, embryo =20umol/L. Mutation in Mammalian Somatic Cells: Hamster, lung = 1mmol/L.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity:

No information found.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

Shipping Information:

TDG UN number: 2014 Class: 5.1 (8) Packing group: II Proper shipping name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION Subsidiary risk : 8 Labels: 5.1 (8)ERG Code: 140 Marine pollutant: no
IMDG UN number: 2014 Class: 5.1 (8) Packing group: II EMS-No: F H, S-Q Proper shipping name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION

IATA UN number: 2014 Class: 5.1 (8) Packing group: II Proper shipping name: Hydrogen peroxide, aqueous solution

SECTION 15 REGULATORY INFORMATION

US : TSCA: listed

Canada: WHMIS: C, D2B, E

SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Jan 1/2025

Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.