

**PRODUCT SAFETY DATA SHEET**

**1: IDENTIFICATION**

**Catalog Number/Product Name:** CK9830, Catalase 3%. Hydrogen Peroxide 3% in water, no stabilizer. Reagent ACS.

**Other Common Names:** Carbamide peroxide, hydrogen dioxide, hydroperoxide, urea peroxide

**Recommended Use/Restrictions:** For in-vitro diagnostic use only by trained professionals.

**Manufacturer/Supplier:**

BioConnections

Phone Number: 01782 516010

Brindley Court

Victoria Business Park

Emergency Phone Number: None available

Knypersley

ST8 7PP

**2: HAZARD(S) IDENTIFICATION**

**(a) Classification of the chemical:**

Oxidising liquid (category 1), H271

Eye damage (category 1), H318

Acute oral toxicity (category 4), H302

Skin corrosion (category 1A), H314

**(b) Signal word:**

DANGER.

**(c) Hazard statement(s):**

H271, May cause fire or explosion: strong oxidizer

H318, Causes serious eye damage

H302, Harmful if swallowed

H314, Causes severe burns and eye damage

**(d) Symbol(s):**



**(e) Precautionary statement(s):**

Keep away from heat, hot surfaces, sparks, flames and any ignition source

Do not eat, drink or smoke while using product

Wear protective gloves when handling product

Do not breathe dust or vapours

Keep away from clothing or combustible materials

Wash hands thoroughly after handling

Wash contaminated clothing before reuse

Store according to label directions

**(f) Describe any hazards not otherwise classified that have been identified during the classification process:**

No data available

**3: COMPOSITION/ INFORMATION ON INGREDIENTS**

Chemical Name	Common Name/Synonym	CAS Number	Concentration (%)
Hydrogen Peroxide	Catalase Reagent	7722-84-1	3% in water

**4: FIRST-AID MEASURES**

**(a) Routes of Exposure:**

**Eyes:** If splashed into eyes, rinse with water for 10 to 15 minutes. Keep eyelids open. Gently remove contact lenses if present and continue rinsing. If irritation persists, seek medical advice

**Ingestion:** Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Seek medical advice immediately. Contact poison control if necessary. If victim is conscious and alert, give 2 to 4 cupful's of milk or water. Never give anything by mouth to an unconscious person

**Inhalation:** Remove victim to fresh air. If not breathing begin artificial respiration and seek medical advice immediately

**Skin:** Wash off with warm water and soap. Get medical attention if irritation develops and persists. Avoid touching contaminated clothing. Destroy contaminated shoes.

**(b) Important symptoms/effects(acute and delayed):** Refer to information in sections 2C and 11

**(c) Indication of immediate medical attention and special treatment needed:** No data available. Contact poison control and/or a physician. Treat symptomatically and supportively

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<b>5: FIRE-FIGHTING MEASURES</b>
<p><b>(a) Suitable (and unsuitable) extinguishing media:</b> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</p> <p><b>(b) Specific hazards arising from the chemical:</b> No data available. Non-flammable, non-combustible</p> <p><b>(c) Special protective equipment and precautions for fire-fighters:</b> As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.</p>
<b>6: ACCIDENTAL RELEASE MEASURES</b>
<p><b>(a) Personal precautions, protective equipment, and emergency procedures:</b> Wear PPE and chemical resistant gloves. Keep unprotected people away.</p> <p><b>(b) Methods and materials for containment and cleaning up:</b> Liquid may be absorbed with a damp sponge or soaked into paper towels. Sand and soda ash may also be used. Discard according to local regulations.</p>
<b>7: HANDLING AND STORAGE</b>
<p><b>(a) Precautions for safe handling:</b> Wear appropriate PPE</p> <p><b>(b) Conditions for safe storage:</b> Store according to label instructions. Store in a cool dry place at 2 to 8°C</p>
<b>8: EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
<p><b>(a) OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:</b> No data available</p> <p><b>(b) Appropriate engineering controls:</b> Eye bath. Safety shower.</p> <p><b>(c) Individual protection measures, such as personal protective equipment:</b>  <b>Eye Protection:</b> Safety glasses with side-shields. Produces irritation, tearing, inflammation and possible corneal injury.</p> <p><b>Ingestion:</b> Do not swallow. Product may cause permanent damage to the digestive tract: burns, perforation, irritation with abdominal pain, nausea, vomiting and diarrhea</p> <p><b>Inhalation:</b> Ensure adequate ventilation, especially in confined spaces. Product may cause respiratory tract damage if inhaled (chemical burns, ulceration, insomnia, nervous tremors with numb extremities, chemical pneumonia, unconsciousness and death).</p> <p><b>Skin and Hand Protection:</b> Wear protective gloves, safety glasses and long sleeved clothing. Causes skin burns. Prolonged or repeated skin contact may cause dermatitis</p>
<b>9: PHYSICAL AND CHEMICAL PROPERTIES</b>
<p><b>Appearance:</b> Physical State: Liquid.  Color: Colorless.</p> <p><b>Odor:</b> Slight, acidic.</p> <p><b>Odor Threshold:</b> No data available.</p> <p><b>pH:</b> 3.3</p> <p><b>Melting Point/Freezing Point:</b> -180°F</p> <p><b>Boiling Point/Boiling Range:</b> 222°F</p> <p><b>Flash Point:</b> Not determined.</p> <p><b>Evaporation Rate:</b> No data available.</p> <p><b>Flammability:</b> No information available.</p> <p><b>Upper and Lower Flammability/Explosive Limits:</b> No data available.</p> <p><b>Vapor Pressure:</b> No data available.</p> <p><b>Vapor Density:</b> No data available.</p> <p><b>Relative Density:</b> No data available.</p> <p><b>Solubility:</b> Soluble in water.</p> <p><b>Partition coefficient (n-octanol/water):</b> No data available.</p> <p><b>Auto-ignition Temperature:</b> No data available.</p> <p><b>Decomposition Temperature:</b> No data available.</p> <p><b>Viscosity:</b> No data available.</p>
<b>10: STABILITY AND REACTIVITY</b>
<p><b>(a) Reactivity:</b> Not determined.</p> <p><b>(b) Chemical stability:</b> Stable under normal conditions.</p> <p><b>(c) Possibility of hazardous reactions:</b> Not determined</p> <p><b>(d) Conditions to avoid (e.g., static discharge, shock, or vibration):</b> Not determined.</p> <p><b>(e) Incompatible materials:</b> Acids, bases, brass, copper, bronze, chromium trioxide, iron, lead, zinc, silver.</p> <p><b>(f) Hazardous decomposition products:</b> None known. Product decomposes slowly to release oxygen.</p>

<b>11: TOXICOLOGICAL INFORMATION</b>
<p>Description of the various toxicological (health) effects and the available data used to identify those effects, including:</p> <p>(a) Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): No data available.</p> <p>(b) Symptoms related to the physical, chemical and toxicological characteristics: No data available.</p> <p>(c) Delayed and immediate effects and also chronic effects from short- and long-term exposure: No data available.</p> <p>(d) Numerical measures of toxicity (such as acute toxicity estimates): No data available.</p> <p>(e) Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA: No data available. No data available.</p>
<b>12: ECOLOGICAL INFORMATION</b>
Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.
<b>13: DISPOSAL CONSIDERATIONS</b>
Dispose as clinical waste
<b>14: TRANSPORT INFORMATION</b>
<p><b>DOT Hazard Class:</b> Class 5.1 Oxidiser</p> <p><b>Shipping name:</b> Hydrogen Peroxide (3%), aqueous solution</p> <p><b>Identification number:</b> UN2984</p> <p><b>Packing group:</b> Group III</p>
<b>15: REGULATORY INFORMATION</b>
No data available.
<b>16: OTHER INFORMATION</b>
<p>The above information, to the best of our knowledge, is accurate. BioConnections assumes no liability whatsoever for the accuracy or completeness of the information stated above. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards may be described, we cannot guarantee that these are the only hazards that exist.</p> <p>Revision Date: July, 2020</p>