KEY SCIENTIFIC PRODUCTS
1113 EAST REYNOLDS ST.
STAMFORD, TEXAS 79553
WWW.KEYSCIENTIFIC.COM
Voice 800-843-1539
Fax 888-440-4208

Safety Data Sheet

1 Identification

GHS Product Identifier

Catalog Number /	Product Name
K980102 - 3%	CATALASE REAGENT 3%
K980100 - 15%	CATALASE REAGENT 15%
K980101 - 30%	CATALASE REAGENT 30%

Other means of identification

Carbamide peroxide, hydrogen dioxide, hydroperoxide, urea peroxide.

Recommended use of the chemical and restriction on use

For invitro diagnostic use only by trained professionals. Used for the detection of catalase activity in bacteria.

Supplier's details

Key Scientific Products
1113 E. Reynolds Street
Stamford, TX 79553

Emergency phone number

Telephone Number : (800)-843-1539
Emergency Number: None available

2 Hazard(s) identification

Classification of the substance or mixture

Skin corrosion/irritation, (Category 2), H315
Serious eye damage, (Category 1), H318

GHS label elements

Danger

Causes skin irritation

Causes serious eye damage

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container to an approved waste disposal plant.

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
Hydrogen Peroxide	7722-84-1		3 - 30	

4 First-aid measures

Description of necessary first-aid measures

After inhalation: fresh air

In case of skin contact: Take off immediately all contaminated clothing, Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.
Remove contact lenses.

After swallowing: immediately make victim drink water (two glasses at most).
Consult a physician.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or section 11

Indication of immediate medical attention and special treatment needed, if necessary

No data available

5 Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and surrounding environment.
For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards arising from the chemical

Nature of decomposition products not known
Not combustible.
Ambient fire may liberate hazardous vapours.
Has a fire-promoting efect due to release of oxygen.

Special protective actions for fire-fighters

Stay in danger area only withself-contained breathing apparatus.
Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Prevent fire extinguising water from entering surface water or ground water.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.

Environmental precautions

Do not emply into drains.

Methods and materials for containment and cleaning up

Cover drains, Collect bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid absorbant and neutralizing material. Dispose of properly. Clean up affected area.

7 Handling and storage

Precautions for safe handling

Observe label precautions.

Hygiene measures
Immedialy change contaminated clothing. Apply protective skin protection. Wash hands and surface after working with substance.
For precautions see section 2.2

Conditions for safe storage, including any incompatibilities

No metal containers. Close containers in such a way to enable internal pressure to escape (e.g excess pressure valve. Keep tightly closed. Protect from light. Do not store near combustible materials.

Recommended Storage temperature: 2-8 C

Storage class (TRGS 510): 5.1B: Oxidizing hazerdous materials.

8 Exposure controls/personal protection

Control parameters

Exposure Guidelines

Component	CAS-No.	Value	Control parameters	Basis
Hydrogen peroxide	7722-84-1	TWA	1 ppm	USA.ACGIH Threshold Limit Values (TLV)

Appropriate engeneering Controls: Eyewash stations, showers

Individual protection measures, such al personal protective equipment

Eye/face Protection: Goggles

Skin and Body Protection: Rubber gloves, Suitable protective clothing.

Respiratory Protection: Ensure adequate ventilation, especially in confined areas.

General Hygene Considerations: Handle in accordance with good industrial hygene and safety practice.

9 Physical and chemical properties

Physical and chemical properties

Information on basic physical and chemical properties

Physical State:	Liquid
Apperance:	Not determined
Color:	Not determined
Odor:	Not determined
Odor Threshold:	Not determined

Property	Values
pH:	
Melting/freezing point:	Not determined
Boiling point/range:	Not determined
Flash point:	Not determined
Evaporation rate:	Not determined
Flammability (Solid, Gas):	n/a-liquid
Upper Flammability Limits:	Not determined
Lower Flammability limit:	Not determined
Vapor Pressure:	23.3 mm Hg
Vapor Density:	1.1 g/L
Specific Gravity:	Not determined
Water Solubility:	Not determined
Solubility in other solvents:	Not determined
Partition Coefficent:	Not determined
Auto-ignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Kinematic Viscosity:	Not determined
Dynamic Viscosity:	Not determined
Explosive Properties:	Not determined
Oxidising Properties:	Not determined

10 Stability and reactivity

Reactivity

Not reactive under normal conditions

Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions

None under normal processing

Conditions to avoid

Light

Incompatible materials

Rust, Organic materials, Metals, Ketones, Ethers

Hazardous decomposition products

Oxygen

11 Toxicological information

Information on the likely routes of exposure

Eye Contact	Causes serious eye damage
Skin Contact	Causes skin irritation
Inhalation	Avoid breathing vapors or mist

Ingestion Do not taste or swallow

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrigen Peroxide 7722-84-1	= 801 mg/kg (Rat)	= 2000mg/kg (Rabbit)	= 2 g/m (Rat) 4 h

Information on physical, chemical, and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms

Delayed and immediate effects and also chronic effects from short and long term exposure

Carcinogenicity

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrogen Peroxide 7722-84-1	A3	Group 3		

Legend

ACGIH (American Conference of Governmental Industrial Hygientists)
A3 - Animal Carinogen

IARC (International Agency for Research on Cancer)
Group 3 IARC components are *"not classified as human carcinogens"*

Numerical measures of toxicity (such as acute toxicity estimates)

Not determined

12 Ecological information

Toxicity

An environmental hazard cannot be excluded in the event os unprofessional hanling or disposal.

Chemical Name	Algea/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrogen Peroxide 7722-84-1		16.4: 96 h Pimephales promelas mg/L LC50 18 - 56: 96 h Lepomis macrochirus mg/L LC50 static 10.0 - 32.0: 96 h Oncohynchus mykiss mg/L LC50 static		18 - 32 : 48 h Daphnia magna mg/L EC50 static

Persistence and degradability

Not determined

Bioaccumulative potential

Not determined

Mobility in soil

Not determined

Other adverse effects

Not determined

13 Disposal considerations

Disposal methods

Disposal should be in accordance with applicable regional/ national, and local laws and regulations.

Chemical Name	California Hazardous Waste Status
Hydrogen Peroxide 7722-84-1	Toxic Corrosive Ignitable Reactive

14 Transport information

UN Number

Note: Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT: Not regulated

IATA: Not regulated

IMDG: Not regulated

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

International Inventories
Not determined

Legend:

- **TSCA** - United State Toxic Substances Control Act Section 8(b) Inventory
- **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- **EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- **ENCS** - Japan Existing and New Chemical Substances
- **IECSC** - China Inventory of Existing Chemical Substances
- **KECL** - Korean Existing and Evaluated Chemical Substances
- **PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- **AICS** - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substance RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrogen Peroxide 7722-84-1		1000 lb	

SARA 313
Not determined

US State Regulations

Chemical Name	New Jersey	Massachusetts	Pensylvania
Hydrogen Peroxinde 7722-84-1	X	X	X

16 Other information

Other information

The above information, to the best of our knowledge, is accurate. Key Scientific Products assumes no liability whatsoever for the accuracy or completeness of the information stated above. Final suitability of the materials 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.