

Camlab Limited – Material Safety Data Sheet

1. Identification


Product Code CC/0367-CO

Product Name **HYDROGEN PEROXIDE 30% w/v pure**

Molecular Formula **H₂O₂ =34.01**

CAS Number **7722-84-1**

Supplier: **CAMLAB LIMITED**
Norman Way Industrial Estate
Over
Cambridge
England
CB4 5WE



Phone **01954 233110**

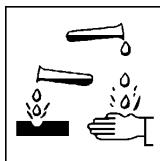
Fax **01954 233101**

Emergency Telephone **08:00-17:00 01954 233110**
24hr 112
(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Hydrogen peroxide	7722-84-1	231-765-0	30.0%	C : R34	WEL

3. Hazards Identification



Causes burns.

4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION URGENTLY.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. Not combustible but assists burning.

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

6. Accidental Release Measures

Personal Protection Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so.

6. Accidental Release Measures (continued)

Environmental	Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
Major Spillage	Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.
Minor Spillage	Wash area down with copious amounts of water.

7. Storage & Handling

Handling Precautions	Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing. Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.
Storage Conditions	Well ventilated, cool, dry storage . Large quantities must be stored in vented containers.

8.1 Workplace Exposure Limits

Workplace Exposure Limits	Long Term (8hr TWA):	1.000 ppm	1.400 mg m ⁻³
	Short Term (15min Period):	2.000 ppm	2.800 mg m ⁻³

8.2 Personal Protection

Respiratory	Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge respirator, or use self contained breathing apparatus.
Hands	Use PVC gauntlets.
Eyes	Use chemical splash proof glasses or goggles.
Skin	If skin contact or contamination of clothing is likely, protective clothing must be worn.

9. Physical & Chemical Properties

Appearance	Clear colourless liquid.
Odour	Odourless.
pH	2 @ 20 °C
Boiling point	106.0 °C
Melting point	22.0- °C
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	No.
Oxidising Properties	A strong oxidising agent.
Vapour Pressure	Not available
Relative Density	1.1010 °C
Water Solubility	Completely soluble in water.

10. Stability & Reactivity

Chemical Stability	Very slowly decomposes with release of oxygen, this is accelerated by elevated temperatures.
Conditions to Avoid	Temperatures above 25C.
Materials to Avoid	Readily decomposed by dust, metals, carbon, salts, etc. Strong oxidising agents. Alkalis. Combustible materials. Many organic compounds.
Hazardous Decomposition Products	Decompose with release of flammable oxygen gas. Elevated temperatures increase rate of decomposition with risk of pressure build up.

11. Toxicological Information

Eyes	The vapour is be extremely irritating to eyes and can cause chemical eye burns. Damage can range from severe irritation and corneal scarring to permanent blindness.
Skin	The vapour will cause severe burns. Severe ulceration and scarring may occur in serious cases. The liquid is irritating to the skin. Repeated exposure may cause dermatitis.
LD50 Skin	Rabbit >2000mg/Kg
Ingest	Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus. Symptoms may include salivation, thirst, difficulty in swallowing, pain, shock and vomiting.
LD50 Ingest	Oral rat 841 mg/Kg
Inhalation	Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes, nose, throat and respiratory tract. High concentrations of vapour will seriously damage the membranes lining the nose, throat and upper respiratory tract.
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.
Other Information	5-10ppm is the threshold for irritation with severe irritation occurring at 50-100 ppm.

12. Ecological

LC50, 96hr, Pimephales promelas 17 mg/l; LC50 48hr, Daphnia 2.4 mg/l; EC50, 72 hr Algae 0.85 mg/l Readily biodegradable, but will inhibit action of biological treatment plant.

13. Disposal Considerations

Disposal Methods	Dispose of in a licensed incinerator. Never dispose of into water courses or sewerage systems.
Contaminated Packaging	Use a licensed waste disposer.

14. Transport Information

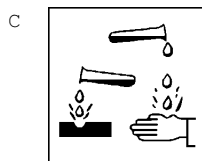
Proper Shipping Name	Hydrogen Peroxide, Aqueous Sol
UN Number	2014
UN Classification	5.1 Oxidising agent
Subsidiary Risk	8 Corrosive
Flash Point	Not available
Packing Group	II
Transport Category	2
Marine pollutant	No
ADR Hazard ID	58



15. Regulatory Information

Labelling	Corrosive.
Classification	

Label Symbols



Risk & safety Phrases	Causes burns. Keep locked up and out of reach of children. Keep in a cool place. After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label).
EEC Number	231-765-0

16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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