

1. Identification

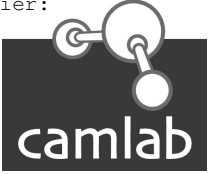
Product Code 1110872

Product Name HYDROGEN PEROXIDE 30% w/v A.R.

Molecular Formula $H_2O_2 = 34.01$

CAS Number 7722-84-1

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



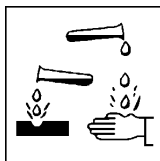
Phone 01954 233110
 Fax 01954 233101

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

| Component | CAS No | Workplace Exposure Limits | | | | Maximum Exposure Limits | | | |
|-------------------|-----------|---------------------------|--------------------|------------|--------------------|-------------------------|--------------------|------------|--------------------|
| | | Long Term | | Short Term | | Long Term | | Short Term | |
| | | ppm | mg m ⁻³ | ppm | mg m ⁻³ | ppm | mg m ⁻³ | ppm | mg m ⁻³ |
| Hydrogen peroxide | 7722-84-1 | 1.000 | 1.400 | 2.000 | 2.800 | - | - | - | - |

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

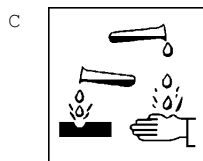
| | |
|----------------------|-------------------------------------|
| Proper Shipping Name | Hydrogen Peroxide, Aqueous Solution |
| UN Number | 2014 |
| UN Classification | 5.1 Oxidising agent |
| Subsidiary Risk | 8 Corrosive |
| Flash Point | Not available |
| Packing Group | II |
| Transport Category | 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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