Scientific Laboratory Supplies - Safety Data Sheet

CHE220

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.2 Revision date: 16 April 2021 Date printed: 16 September 2024

Section 1. Identification

Product Identifier CHE2200

> Product Name HYDROGEN PEROXIDE 30% w/v pure 500ml.

CAS Number

REACH Registration No 01-2119485845-22-XXXX

H O =34.01 Molecular Formula

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 **Supplier** Scientific Laboratory Supplies



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(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Acute toxicity, category 4 (oral) H302: Harmful if swallowed. Serious eye damage/irritation, category 1 H318: Causes serious eye damage.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Hazard Statements Causes serious eye damage. Harmful if swallowed. **Precautionary Statements**

Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Section 3. Composition

3.1 Substances

| Component | mponent CAS No. EEC No. REA | | Conc w/w | CLP Classification (1272/2008/CE) | |
|-------------------|-----------------------------|--|----------|--|--|
| Hydrogen Peroxide | 7722-84-1 231-765-0 | | 30% | Ox. Liq. 1,Skin Corr. 1A,Acute Tox. 4 (O),Acute Tox. 4 (I) | |

Section 4. First Aid

4.1 Description of first aid measures

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

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.

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

Personal protection for first Wear protective gloves / eye protection.

aiders

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

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

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards Not combustible but assists burning.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

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.

6.2 Environmental precautions

Enviromental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with

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copious amounts of water.

Minor Spillage Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

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.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Large quantities must be stored in vented containers.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

| Component | CAS No | Concentration | Workplace Exposure Limits | | | |
|-------------------|-----------|---------------|---------------------------|---|--------------------------|---|
| | | | Long Term (8hr TWA) | | Short Term 15min period) | |
| Hydrogen Peroxide | 7722-84-1 | 30% | = | - | - | - |

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

maintained chemical cartridge respirator, or use self contained breathing apparatus.

Hand Protection Use PVC gauntlets.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Odourless.

Not applicable

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Clear colourless liquid.

pH 2 @ 20°C
Boiling Point 106°C
Melting Point -22°C
Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable

Explosive Properties No

Oxidising Properties A strong oxidising agent.

Vapour Pressure Not applicable Relative Density 1.1010

Water Solubility Completely soluble in water.

9.2 Other information

Auto Ignition

Odour

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

Very slowly decomposes with release of oxygen, this is accelerated by elevated temperatures. **10.2** Chemical Stability

Possibility of hazardous

reactions

Products

No data available.

10.4 Conditions to Avoid Temperatures above 25C.

10.5 Incompatable Materials Readily decomposed by dust, metals, carbon, salts, etc. Strong oxidising agents. Alkalis. Combustible materials.

Many organic compounds.

Decompose with release of flammable oxygen gas. Elevated temperatures increase rate of decomposition with Hazardous Decomposition

risk of pressure build up.

Section 11. Toxicological Information

11.1 Information on toxicological effects

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 >2000mg/kg Rabbit

Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus. Symptoms may Ingestion

include salivation, thirst, difficulty in swallowing, pain, shock and vomiting.

LD50 Oral 841mg/kg Rat

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.

Not available LD50 Inhalation **TCLo** Not available

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.

Section 12. Ecological

12.1 Toxicity 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.

LC50 Algal Not available LC50 Crustacea Not available LC50 Fish Not available 12.2 Persistence and No data available. degradability

12.3 Bioaccumulative potential No data available.

12.4 Mobility in soil No data available.

Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dispose of in a licensed incinerator. Never dispose of into water courses or sewerage systems.

Use a licensed waste disposer. Contaminated Packaging

Section 14. Transport Information

14.1 UN Number 2014

14.2 Proper Shipping Name Hydrogen peroxide, aqueous solution

14.3 Transport classes

UN classification 5.1
Subsidiary hazard(s) 8
Transport category 2
ADR Hazard ID 58
Tunnel Restriction Code E
Packing Group II

14.4 Packing Group II

14.5 Environment hazards See section 12.

14.6 Special precautions for

14.7 Transport in bulk Not transported in bulk.



Section 15. Regulatory Information

$15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

No special precautions required.

Classification Acute toxicity, category 4 (oral); Serious eye damage/irritation, category 1

Signal word Danger

Hazard Pictograms





Hazard Statements H318, H302

Causes serious eye damage. Harmful if swallowed.

Precautionary Statements P280, P264, P305+P351+P338, P301+P312, P330

Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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