



MATERIAL SAFETY DATA SHEET

HYDROGEN PEROXDE

1. IDENTIFICATION OF CHEMICAL

CHEMICAL NAME: HYDROGEN PEROXIDE

SYNONYMS:

CAS NO: 7722-84-1

EINECS NUMBER: 231-765-0

COMPANY

IDENTIFICATIONS:

Hydrogarden
Unit 2
Coventry
CV3 2NT
UK

Tel: 024 7665 1500

2 COMPOSITION

INGREDIENT NAME	CAS NO	CONTENT	HEALTH (CLASS)	RISK (R NO)
Hydrogen Peroxide	7722-84-1	10+%	C	R 8-34

3. HAZARD IDENTIFICATION

MAIN HAZARDS: Corrosive to skin, eyes and mucous membranes. Not combustible, but will contribute to the combustion of other materials. May cause violent, sometimes explosive reactions.

4. FIRST AID MEASURES

EYES: Severe irritation, pain, watering, redness, swelling and irreversible damage to the cornea. Irrigate thoroughly with water for at least 10 minutes. Obtain immediate medical attention.

SKIN: Irritation, temporary whitening, desiccation and burns. Remove contaminated clothing immediately and immerse them in water to eliminate the risk of fire. Drench the skin with plenty of water. Seek medical attention.

INHALATION:

Slight nose and throat irritation, coughing. Prolonged contact may result in more serious effects. Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete, seek medical attention.

INGESTION:

Severe irritation, burns, perforation of the gastro-intestinal tract, bloating of the stomach, nausea and vomiting. Wash out mouth with water. DO NOT induce vomiting. If patient is conscious, give water to drink. Obtain immediate medical attention.

HYDROGEN PEROXIDE >10%

5. FIRE FIGHTING MEASURES

EXPOSURE HAZARDS:	Pressure bursts may occur due to gas evolution. Oxygen released on decomposition may assist and increase combustion.
SUITABLE EXTINGUISHER:	Fine water spray, foam
UNSUITABLE EXTINGUISHER:	Powder, CO ₂

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION:	Wear appropriate protective clothing. Ensure the area is ventilated. Isolate the area immediately keeping non-indispensable staff away.
LEAKS & SPILLS:	Do not allow undiluted material to enter drains. Immediately inform authorities of discharges.
CLEAN-UP PROCEDURES:	If possible, dam large quantities with sand or other inert material. Take up liquid and hold in labelled containers. DO NOT return to original containers. Greatly dilute remaining spillage with water before discharging to drains.

7. HANDLING AND STORAGE

HANDLING:	Use chemical goggles, gloves and protective clothing.
STORAGE:	.Store in a cool well-ventilated area. Keep away from acids, alkalis, metals, salts of minerals, reducing agents and flammable substances. Keep out of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:	Wear appropriate protective clothing.
EXPOSURE LIMITS:	1ppm (1.5 mg/m ³) - 8hr TWA 2ppm (3 mg/m ³) - 15 minute reference period.

Exposure should be reduced to the lowest which is reasonable and practicable.

TYPE:

HYDROGEN PEROXIDE >10%

9. PHYSICAL AND CHEMICAL PROPERTIES

CHEMICAL FORMULA:	H ₂ O ₂
APPEARANCE:	Colourless liquid
SOLUBILITY DESCRIPTION:	Soluble in polar organic solvents and water.
BOILING POINT/RANGE:	100 – 120°C
MELTING POINT/RANGE:	
OXIDISING:	
EXPLOSIVE LIMITS: LOWER:	N/A
UPPER:	N/A
TOXICITY:	No toxicity data available.
FLASH POINT:	N/A
PART COEFFICIENT:	
FLAMMABILITY:	
AUTOFLAMMABILITY:	
VAPOUR PRESSURE:	12 mbar (50%) @ 20C
RELATIVE DENSITY:	1.04 - 1.2
pH:	

10. STABILITY AND REACTIVITY

STABILITY:	Will decompose to water and oxygen. This rate is largely dependent on temperature.
CONDITIONS TO AVOID:	Acids, alkalis, metals, salts of minerals, reducing agents and flammable substances.

11. TOXICOLOGICAL INFORMATION

HEALTH EFFECT:	SKIN:	Corrosive to skin.
	EYES:	Corrosive to eyes and mucous membranes.
	INHALATION:	Not available
	INGESTION:	Not available

12. ECOLOGICAL EFFECTS

ECOTOXICITY:	Not significantly volatile. Very soluble in water.
PERSISTANCE:	Readily biodegradable, but will inhibit action of biological treatment plants.
APPRAISAL:	Not available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:	Via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.
--------------------------	---

HYDROGEN PEROXIDE >10%

14. TRANSPORT INFORMATION

IMDG CODE

UN NO: 2014
PACKING GROUP: II
CLASS ITEM: 5.1

ADR/RID

SUBST. ID NO: 2014
CLASS NO: 5.1,1(b)

IATA/ICAO

UN NO: 2014
IATA CLASS:
INDEX NO:
TRANSPORT PRECAUTIONS:

15. REGULATORY INFORMATION

CLASSIFICATION: Corrosive

RISK PHRASES: R34: Causes burns.
R8: Contact with combustible material may cause fire.



SAFETY PHRASES: S 3: Keep in a cool place.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28: After contact with skin, wash immediately with plenty of water.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

“This product is labelled in accordance with current CHIP LEGISLATION”.

16. ADDITIONAL INFORMATION

LEGAL DISCLAIMER: The information contained in this MSDS does not constitute a hazard assessment, and should not replace the user's own assessment of risks as required by other Health & Safety Legislation.
This advice is given by Hydrogarden Ltd. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.