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# ReAgent

## SAFETY DATA SHEET HYDROGEN PEROXIDE 100 vol (27.5%) TECH

According to Regulation (EC) No 1907/2006

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME HYDROGEN PEROXIDE 100 vol (27.5%) TECH  
 PRODUCT NO. 2595  
 APPLICATION General chemical reagent  
 SUPPLIER Reagent Chemical Services  
 18 Aston Fields Road  
 Whitehouse Industrial Estate  
 Runcorn  
 Cheshire WA7 3DL  
 T: 01928 716903  
 F: 01928 716425  
 E: info@reagent.co.uk  
 EMERGENCY TELEPHONE Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00

### 2 HAZARDS IDENTIFICATION

Harmful if swallowed. Risk of serious damage to eyes.

CLASSIFICATION Xn;R22. Xi;R41.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
HYDROGEN PEROXIDE SOLUTION ... %	231-765-0	7722-84-1	10-30%	R5 O;R8 C;R35 Xn;R20/22

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

CAUTION! First aid personnel must be aware of own risk during rescue! First aid personnel must protect themselves with all necessary personal protective equipment during the assistance of casualties. When breathing is difficult, properly trained personnel may assist the casualty by administering oxygen. If casualty needs to be resuscitated avoid mouth to mouth contact, use a mechanical device such as a bag and mask to provide artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing can take place. Do not give victim anything to drink if they are unconscious. If medical attention is required take this information sheet with the casualty.

#### INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

#### INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Get medical attention immediately!

#### SKIN CONTACT

Immediately remove contaminated clothing and wash before re-use. Rinse the skin immediately with lots of water. Unless contact has been slight, obtain medical attention.

#### EYE CONTACT

May cause permanent damage if eye is not immediately irrigated. Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention immediately.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

#### SPECIFIC HAZARDS

Vapours/gases/fumes of: Oxygen. May ignite combustible materials.

## HYDROGEN PEROXIDE 100 vol (27.5%) TECH

### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

### SPILL CLEAN UP METHODS

Small Spillages Absorb with sand or other inert absorbent. Large Spillages Dam and absorb spillages with sand, earth or other inert material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Wash thoroughly after dealing with a spillage.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Avoid inhalation of vapours and spray mists.

### STORAGE PRECAUTIONS

Store away from combustible materials. Store in vented, original containers in a cool, dry place. Store below 15 C Store away from direct sunlight and moisture

### STORAGE CLASS

Oxidiser storage.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
HYDROGEN PEROXIDE SOLUTION ... %	OES	1 ppm	1.4 mg/m3	2 ppm	2.8 mg/m3	

### ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded. If vapours or mists are generated, work in a fume cupboard.

### RESPIRATORY EQUIPMENT

Wear suitable respiratory protection if vapours or mists are generated. Consult with the supplier as to the compatibility of the equipment with the chemical of concern.

### HAND PROTECTION

Use full-length gloves. Nitrile. Butyl rubber. Viton rubber (fluor rubber). Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

### EYE PROTECTION

Wear approved safety goggles.

### OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and safety shower. Wear plastic apron and full length gloves if handling large amounts. If there is a risk of splashing then wear a face shield.

### HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Odourless		
SOLUBILITY	Miscible with water.		
BOILING POINT (°C)	Approx. 107	760 mm Hg	RELATIVE DENSITY 1.1
VAPOUR PRESSURE	Approx. 18 hPa	20	pH-VALUE, CONC. SOLUTION 2 - 4

## 10 STABILITY AND REACTIVITY

### STABILITY

Limited storage life. Heat sensitive Light sensitive.

**HYDROGEN PEROXIDE 100 vol (27.5%) TECH****CONDITIONS TO AVOID**

Avoid heat.

**MATERIALS TO AVOID**

Metals. Powdered metal. Metal oxides. Inorganic hydrides. Flammable/combustible material. Acids. Acid anhydrides. Strong oxidising substances. Organic nitro compounds. Organic solvents. Alkali hydroxides The possibility of reaction with other materials cannot be excluded.

**11 TOXICOLOGICAL INFORMATION**

TOXIC DOSE 1 - LD 50 1193 - 1270 (35%) mg/kg (oral rat)

**INHALATION**

Vapours or mists are severely irritating to the respiratory system

**INGESTION**

Nausea, vomiting. Corrosive. Even small amounts may cause serious damage. Causes burns in mouth, oesophagus and stomach. There is a risk of perforation of the oesophagus and stomach.

**SKIN CONTACT**

Causes burns.

**EYE CONTACT**

Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative.

**HEALTH WARNINGS**

Found to cause cancer in laboratory animals. Evidence of mutagenic effects

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

Although not classified as environmentally hazardous, harmful effects cannot be excluded in the event of improper handling or disposal. Do not allow to enter drinking water, waste water or soil.

LC 50, 96 Hrs, FISH mg/l 16.4 (P. promelas)

IC 50, 72 Hrs, ALGAE, mg/l 2.5 (C. vulgaris)

**DEGRADABILITY**

Readily degradable in water

**ACUTE FISH TOXICITY**

Toxic to fish

**13 DISPOSAL CONSIDERATIONS****DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

**14 TRANSPORT INFORMATION**

UK ROAD CLASS	5.1		
PROPER SHIPPING NAME	HYDROGEN PEROXIDE, AQUEOUS SOLUTION		
UN NO. ROAD	2014	UK ROAD PACK GR.	II
ADR CLASS NO.	5.1	ADR CLASS	Class 5.1: Oxidising substances.
ADR PACK GROUP	II	ADR LABEL NO.	5.1 & 8
HAZCHEM CODE	2P	CEFIC TEC(R) NO.	51GOC1-I+II+III
RID CLASS NO.	5.1	RID PACK GROUP	II
UN NO. SEA	2014	IMDG CLASS	5.1
IMDG PAGE NO.	5.1 & 8	IMDG PACK GR.	II
EMS	F-H, S-Q	MFAG	See Guide

## HYDROGEN PEROXIDE 100 vol (27.5%) TECH

MARINE POLLUTANT	No.	UN NO. AIR	2014
AIR CLASS	5.1	AIR SUB CLASS	8
AIR PACK GR.	II		

### 15 REGULATORY INFORMATION

**LABELLING**



Harmful

**CONTAINS** HYDROGEN PEROXIDE SOLUTION ... %

**RISK PHRASES**

- R22 Harmful if swallowed.
- R41 Risk of serious damage to eyes.

**SAFETY PHRASES**

- S25 Avoid contact with eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S39 Wear eye/face protection.
- S60 This material and its container must be disposed of as hazardous waste.

**STATUTORY INSTRUMENTS**

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

**APPROVED CODE OF PRACTICE**

Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations.

**GUIDANCE NOTES**

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

**NATIONAL REGULATIONS**

Control of Substances Hazardous to Health Regulations 2002 (as amended)

### 16 OTHER INFORMATION

**REVISION COMMENTS**

This is first issue.

REVISION DATE 06/08/2009

REV. NO./REPL. SDS GENERATED 1

SDS NO. 11496

**SAFETY DATA SHEET STATUS**

Approved.

**RISK PHRASES IN FULL**

- R35 Causes severe burns.
- R8 Contact with combustible material may cause fire.
- R20/22 Harmful by inhalation and if swallowed.
- R5 Heating may cause an explosion.
- R37 Irritating to respiratory system.