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ReAgent

SAFETY DATA SHEET HYDROGEN PEROXIDE 12% w/w

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

PRODUCT NAME HYDROGEN PEROXIDE 12% w/w
PRODUCT NO. 2444
APPLICATION General chemical reagent
SUPPLIER Reagent Chemical Services
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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

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. In case of severe exposure or if any discomfort continues get medical attention.

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. Wash the skin immediately with soap and water. In serious cases or if discomfort continues obtain medical attention.

EYE CONTACT

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.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

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

SPECIFIC HAZARDS

In case of fire, toxic and corrosive gases may be formed. May ignite combustible material.

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.

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SPILL CLEAN UP METHODS

Small Spillages Absorb with inert, non-combustible material. Large Spillages Dam and absorb spillages with sand, earth or other non-combustible 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.

STORAGE PRECAUTIONS

Store in tightly closed original container at room temperature (15 - 25C) away from direct sunlight, moisture and combustible materials

STORAGE CLASS

Chemical 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 workplace exposure limits are not exceeded.

RESPIRATORY EQUIPMENT

Wear suitable respiratory protection if vapours or mists are generated.

HAND PROTECTION

Use protective gloves made of: Butyl rubber. Nitrile. 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 tight fitting safety glasses. Use face shield in case of splash risk.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and safety shower.

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. 100	760 mm Hg	RELATIVE DENSITY
pH-VALUE, CONC. SOLUTION	Approx. 4		Approx. 1.04 20

10 STABILITY AND REACTIVITY

STABILITY

Heat sensitive Light sensitive.

CONDITIONS TO AVOID

Avoid heat.

MATERIALS TO AVOID

Metals. Metal oxides. Powdered metal. Acids. Ammonia. Hydrazine and derivatives Oxidising agents. Organic nitro compounds. Flammable/combustible material.

11 TOXICOLOGICAL INFORMATION

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

HYDROGEN PEROXIDE 12% w/w**TOXICOLOGICAL INFORMATION**

Hydrogen Peroxide has been found to cause cancer in laboratory animals. Evidence of mutagenic effects.

INHALATION

Vapours are irritating to the respiratory system.

INGESTION

Nausea, vomiting. May cause burns to the oesophagus and stomach.

SKIN CONTACT

Irritating to skin.

EYE CONTACT

Risk of serious damage to eyes. May cause chemical eye burns. Possible blindness.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

Although not classified as environmentally hazardous, harmful effects cannot be excluded in the event of improper handling or disposal.

LC 50, 96 Hrs, FISH mg/l 16.4 (P. promelas) - 100 vol. solution

IC 50, 72 Hrs, ALGAE, mg/l 2.5 (C.vulgaris) - 100 vol. solution

DEGRADABILITY

The product is easily biodegradable.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

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

14 TRANSPORT INFORMATION

GENERAL The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

MARINE POLLUTANT No.

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.

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NATIONAL REGULATIONS

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

16 OTHER INFORMATION

REVISION COMMENTS

Changes to sections 7, 9 and 11.

REVISION DATE 02/07/2008

REV. NO./REPL. SDS GENERATED 2

SDS NO. 11253

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.