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ReAgent

SAFETY DATA SHEET SULPHURIC ACID 97% TECH

According to Regulation (EC) No 1907/2006

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

PRODUCT NAME	SULPHURIC ACID 97% TECH
CAS-No.	7664-93-9
EU INDEX NO.	016-020-00-8
EC No.	231-639-5
SUPPLIER	Reagent Chemical Services 18 Aston Fields Road Whitehouse Industrial Estate Runcom Cheshire WA7 3DL T: 01928 716903 F: 01928 716425 E: info@reagent.co.uk
PRODUCT NO.	2605
APPLICATION	General chemical reagent
EMERGENCY TELEPHONE	Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00

2 HAZARDS IDENTIFICATION

Causes severe burns.

CLASSIFICATION (67/548) -

3 COMPOSITION/INFORMATION ON INGREDIENTS

EU INDEX NO.	016-020-00-8
EC No.	231-639-5
CAS-No.	7664-93-9

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. Get medical attention immediately.

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. Dry powder, sand or carbon dioxide. Do not use water as an extinguisher.

SPECIFIC HAZARDS

In case of fire, toxic and corrosive gases may be formed. Sulphurous gases (SO_x).

SULPHURIC ACID 97% 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: Spread soda ash liberally over spillage and transfer to containers. Large Spillages: Dam and absorb spillages with sand, earth or other inert material. Collect spillage in sealable containers. Neutralise with aqueous soda ash slurry (CAUTION - VIGOROUS REACTION, HEAT GENERATED) and leave for 24 hours before sealing tightly. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Deliver for disposal according to local regulations. 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. Never add water directly to this product - may cause vigorous reaction/boiling. Always dilute by carefully pouring the product into the water. Avoid inhalation of vapours and spray mists.

STORAGE PRECAUTIONS

Store in closed original container at temperatures between 15°C and 25°C. Store away from direct sunlight and moisture

STORAGE CLASS

Corrosive storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
SULPHURIC ACID 97% TECH	OES		1 mg/m ³			

INGREDIENT COMMENTS

The OES for sulphuric acid has been withdrawn by the HSE. The value quoted is given for guidance only.

ENGINEERING MEASURES

Provide adequate ventilation and appropriate extraction to avoid occupational exposure. If vapours or mists are generated, work in a fume cupboard.

RESPIRATORY EQUIPMENT

In case of inadequate ventilation use suitable respirator. 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. Butyl rubber. Polyethylene/Ethylene Vinyl Alcohol (PE/EVAL). 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)	330	MELTING POINT (°C)	10
RELATIVE DENSITY	1.84	VAPOUR PRESSURE	1 mm Hg 146
pH-VALUE, CONC. SOLUTION	< 1		

10 STABILITY AND REACTIVITY

SULPHURIC ACID 97% TECH**STABILITY**

Stable under normal temperature conditions.

MATERIALS TO AVOID

Water. Ammonia. Alkaline substances Acids. Metals. Flammable/combustible material. Organic nitro compounds. Inorganic hydrides. Inorganic nitrates. Inorganic peroxides. Organic peroxides/hydroperoxides. Organic solvents.

HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of: Sulphur.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 2140 mg/kg (oral rat)

INHALATION

Corrosive. Causes coughing, dyspnoea. May lead to formation of oedemas in the respiratory tract.

INGESTION

Corrosive. Even small amounts may cause serious damage. Ingestion is followed by severe pain (risk of perforation), nausea, vomiting, and diarrhoea.

SKIN CONTACT

Causes severe burns.

EYE CONTACT

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

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms. Ecological effects cannot be excluded in the event of improper handling or disposal. Do not allow to enter drinking water, waste water or soil.

ACUTE FISH TOXICITY

Sulphuric acid has a toxic effect on fish and algae. Sulphuric acid: lethal from 1.2mg/l up; from 6.3 mg/l lethal in 24 hours.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

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

14 TRANSPORT INFORMATION

UK ROAD CLASS	8		
PROPER SHIPPING NAME	SULPHURIC ACID		
UN NO. ROAD	1830	UK ROAD PACK GR.	II
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	II	ADR LABEL NO.	8
HAZCHEM CODE	2P	CEFIC TEC(R) NO.	80GC1-II+III
RID CLASS NO.	8	RID PACK GROUP	II
UN NO. SEA	1830	IMDG CLASS	8
IMDG PAGE NO.	8	IMDG PACK GR.	II
EMS	F-A, S-B	MFAG	See Guide
MARINE POLLUTANT	No.	UN NO. AIR	1830
AIR CLASS	8	AIR PACK GR.	II

15 REGULATORY INFORMATION**LABELLING**

SULPHURIC ACID 97% TECH

Corrosive

RISK PHRASES

R35 Causes severe burns.

SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S30 Never add water to this product.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

S1/2 Keep locked up and out of the reach of children.

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

GENERAL INFORMATION

Under REACH Material Safety Datasheets (MSDS) are referred to as Safety Datasheets (SDS).

REVISION COMMENTS

This is first issue.

REVISION DATE 14/08/2009

REV. NO./REPL. SDS GENERATED 1

SDS NO. 20825

SAFETY DATA SHEET STATUS

Approved.