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# ReAgent

## SAFETY DATA SHEET SULPHURIC ACID 20% V/V

According to Regulation (EC) No 1907/2006

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

PRODUCT NAME                   SULPHURIC ACID 20% V/V  
PRODUCT NO.                    6027  
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](mailto:info@reagent.co.uk)  
EMERGENCY TELEPHONE        Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00

### 2 HAZARDS IDENTIFICATION

Causes severe burns.

CLASSIFICATION                C;R35.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
SULPHURIC ACID ...%	231-639-5	7664-93-9	30-60%	C;R35

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. 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. Extinguish with carbon dioxide or dry powder. DO NOT use water if avoidable.

#### SPECIFIC HAZARDS

In case of fire, toxic and corrosive gases may be formed.

#### 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.

**SULPHURIC ACID 20% V/V****SPILL CLEAN UP METHODS**

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

**STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry and cool place.

**STORAGE CLASS**

Corrosive storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs	STEL - 15 min	Notes
SULPHURIC ACID ...%	OES	1 mg/m <sup>3</sup>		

**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, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

**RESPIRATORY EQUIPMENT**

In case of inadequate ventilation use suitable respirator.

**HAND PROTECTION**

Use full-length gloves. Rubber or plastic. 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 goggles/face shield.

**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.		
RELATIVE DENSITY	1.1 - 1.4	pH-VALUE, CONC. SOLUTION	<1

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions. Exothermic reaction with water.

**MATERIALS TO AVOID**

Water. Alkali metals. Alkali earth metals. Bases, alkalis (inorganic). Bases, alkalis (organic). Ammonia. Acids. Metals. Inorganic hydrides. Potassium permanganate. Inorganic nitrates. Flammable/combustible material. Organic solvents. Organic nitro compounds. Organic peroxides/hydroperoxides. Inorganic peroxides. Organic nitrites. Inorganic nitrides.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Oxides of: Sulphur.

**11 TOXICOLOGICAL INFORMATION**

## SULPHURIC ACID 20% V/V

TOXIC DOSE 1 - LD 50

2140 (Sulphuric acid) mg/kg (oral rat)

**INHALATION**

May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

**INGESTION**

Corrosive. Even small amounts may cause serious damage.

**SKIN CONTACT**

Causes severe burns.

**EYE CONTACT**

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

### 12 ECOLOGICAL INFORMATION

**ECOTOXICITY**

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

### 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	2796	UK ROAD PACK GR.	II
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	II	ADR LABEL NO.	8
RID CLASS NO.	8	RID PACK GROUP	II
UN NO. SEA	2796	IMDG CLASS	8
IMDG PAGE NO.	8	IMDG PACK GR.	II
MARINE POLLUTANT	No.	UN NO. AIR	2796
AIR CLASS	8	AIR PACK GR.	II

### 15 REGULATORY INFORMATION

**LABELLING**



Corrosive

**CONTAINS**

SULPHURIC ACID 30.84%

**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.

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

S24/25 Avoid contact with skin and eyes.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

## SULPHURIC ACID 20% V/V

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

Change to section 1

REVISION DATE 25/09/2008

REV. NO./REPL. SDS GENERATED 1

SDS NO. 10105

### RISK PHRASES IN FULL

R35 Causes severe burns.