



SAFETY DATA SHEET

SULPHURIC ACID

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

PRODUCT NAME: SULPHURIC ACID
PART No.: RM267
SUPPLIER: J M Loveridge plc
Southbrook Road, Southampton
Hampshire
SO15 1BH
Tel: 023 8022 2008
Fax: 023 8022 2117

2. COMPOSITION/INFORMATION ON INGREDIENTS:

EU INDEX No.: 016-020-00-8
EEC (EINECS) No. 231-639-5
CAS No.: 7664-93-9
COMPOSITION COMMENTS: Contains sulphuric acid @ ~ 95% w/w.

3. HAZARDS IDENTIFICATION:

Causes severe burns.

4. FIRST AID MEASURES:

GENERAL: IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION

INHALATION: Move affected person to fresh air. If recovery not rapid, seek medical attention. If breathing stops, provide artificial respiration.

INGESTION: DO NOT INDUCE VOMITING. In case of spontaneous vomiting, be sure that vomit can freely drain because of danger of suffocation. Only when conscious, rinse mouth with plenty of water and give plenty of water to drink - (approx 500ml). Keep patient at rest and obtain medical attention.

SKIN: Remove contaminated clothing. Wash affected area with plenty of soap and water. Obtain medical attention. Launder clothing before re-use.

EYES: Rinse immediately with plenty of water for at least 5 minutes while lifting the eye lids. Seek medical attention. Continue to rinse.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA:	Use extinguishing media suitable against surrounding fire or the cause of fire.
SPECIAL FIRE FIGHTING PROCEDURES:	UNSUITABLE EXTINGUISHING MEDIA - Do not use water.
HAZARDOUS COMBUSTION PRODUCTS:	Toxic or corrosive vapours may be released in fire situation.
PROTECTIVE MEASURES IN FIRE:	Fire fighters should wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION IN SPILL:	Avoid direct contact with skin, eyes and clothing. Wear appropriate protective clothing.
PRECAUTIONS TO PROTECT ENVIRONMENT:	Prevent contamination of soil, drains and surface water.
SPILL CLEANUP METHODS:	Take-up spillage with absorbent, inert material and place in a suitable and closable labelled container for recovery or disposal. Do not use combustible materials (such as sawdust) to soak-up spillages. Cautiously neutralise residue with soda ash and wash area clean with water and detergent, observing environmental requirements. Cautiously neutralise small spillages with soda ash and greatly dilute with plenty of water before disposal.

7. HANDLING AND STORAGE:

USAGE PRECAUTIONS:	HANDLING - Product should be used in accordance with good industrial principles for handling and storing of hazardous chemicals. Avoid contact with skin or eyes. Never add water to this product, reacts violently with evolution of heat.
STORAGE PRECAUTIONS:	Store in a cool, dry, well ventilated place, in securely closed original container.
STORAGE CRITERIA:	Corrosive storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT NAME:	CAS No.:	STD	LT EXP 8 Hrs	ST EXP 15 Min
SULPHURIC ACID	7664-93-9	OES	1 mg/m ³	

VENTILATION:	Work in a fume cupboard or use local exhaust ventilation. Respiratory protection required in insufficiently ventilated working areas.
RESPIRATORS:	For short periods of work, a suitable RPE fitted with a combination E1 filter cartridge is recommended.
PROTECTIVE GLOVES:	Use impervious gloves.
EYE PROTECTION:	Where the potential for eye contact exists, splash-proof goggles or face shield must be worn.
OTHER PROTECTION:	Wear protective clothing and closed footwear. Apron. Wear personal protective equipment appropriate to the quantity of material handled.

HYGIENIC WORK PRACTICES: SKIN PROTECTION - apply barrier cream to hands and exposed skin.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Clear, colourless or pale yellow liquid.

DENSITY/SPECIFIC GRAVITY (g/ml): 1.40 - 1.84 **Temperature (°C):** 20

pH-VALUE, DILUTED SOLUTION: <1 **Concentration % M:**

SOLUBILITY DESCRIPTION: Miscible with water in all proportions.

10. STABILITY AND REACTIVITY:

STABILITY: Stable under normal conditions of use.

CONDITIONS TO AVOID: Store away from reactive materials.

MATERIALS TO AVOID: Alkalis, bases and oxidising agents. Most common metals, halogen compounds, nitrates, permanganates, combustible materials.

HAZARDOUS DECOMP. PRODUCTS: Thermal decomposition may release noxious, toxic or corrosive gases or vapours. CARE - will react with many metals to liberate highly flammable hydrogen gas.

11. TOXICOLOGICAL INFORMATION:

Toxicological data LC50. Inhalation. Rat. 0.51 mg/l (aerosol or mist)

TOXIC DOSE - LD 50: 900 mg/kg (oral-rbt)

TOXICOLOGICAL INFORMATION: The European Sulphuric Acid Association suggest exposure levels should be reduced as far as possible and certainly below 0.3 mg/m³, based on epidemiological evidence of irritant effects of sulphuric acid mist .

INHALATION: Inhalation of mist or vapour will cause irritation of the upper respiratory tract, high concentrations may cause damage to mucous membranes and lungs.

INGESTION: May cause burns to mucous membranes, throat and stomach. May cause severe internal injury.

SKIN: Liquid causes severe irritation and burns on prolonged contact.

EYES: Liquid causes severe burns. Risk of serious damage to eye.

MEDICAL SYMPTOMS: Irritation of eyes and mucous membranes. Burning sensation in mouth. Severe skin irritation. Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

12. ECOLOGICAL INFORMATION:

Ecotoxicological data LC50 24 hours fish 6.3 mg/l

ECOLOGICAL INFORMATION: Avoid release to the environment. Prevent contamination of soil, drains or surface water, use appropriate containment method to avoid environmental contamination.

BIO ACCUMULATION: Not expected to bio-accumulate.
DEGRADABILITY: Neutralised slowly by natural alkalinity.
ACUTE FISH TOXICITY: Fatal to aquatic life due to pH shift.

13. DISPOSAL CONSIDERATIONS:

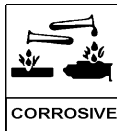
DISPOSAL METHODS: This material and/or its container must be disposed of as hazardous waste according to Special Waste Regulations 1996 or according to local regulations, in compliance with Duty of Care Regulations and Special Waste Regulations.
WASTE CLASS: WASTE CODE:0705** HAZARDOUS PROPERTY: H8

14. TRANSPORT INFORMATION:

UK ROAD PACK GR.: II
ADR CLASS No.: 8
ADR CLASS: Class 8: Corrosive substances.
ADR ITEM No.: 1°(b)
HAZARD No. (ADR): 80 Corrosive or slightly corrosive substance.
ADR MARGINAL: 2801
ADR LABEL No.: 8
HAZCHEM CODE: 2P
PROPER SHIPPING NAME I: SULPHURIC ACID, with more than 51% acid
UN No. SEA: UN 1830
IMDG CLASS: 8
IMDG PAGE No.: 8230
IMDG PACK GR.: II
UN No., AIR: UN-ID 1830
ICAO CLASS: 8
AIR PACK GR.: II

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY:



RISK PHRASES: R-35 Causes severe burns.

SAFETY PHRASES: S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S-30 Never add water to this product.
S-45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

UK REGULATORY REFERENCES: Classification, Packaging and Labelling Regulations 1984. Chemicals (Hazard Information & Packaging) Regulations 1993.

16. OTHER INFORMATION:

INFORMATION SOURCES: This product has been classified in accordance with CHIP3 regulations.

REVISION COMMENTS: Edition 01; Revised item(s):

ISSUED BY: MK

SDS No.: 491

DATE: 12/07/02

DISCLAIMER: The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this Data Sheet is to the best of JMLs knowledge correct at the time of publication. Customers should always satisfy themselves, that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.