

MATERIAL SAFETY DATA SHEET

SULPHURIC ACID 98%



Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name:	Sulphuric Acid 98%
CAS Number:	7664-93-9
EC Number:	231-639-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use:	Laboratory chemicals, manufacture of substances Scientific R&D.
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1.3 Details of the supplier of the safety data sheet

Company name:	East Harbour Group Ltd Miranda House, The Quay Harwich, Essex, CO12 3HH United Kingdom
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Telephone:	+44 (0) 333 242 0100
Email:	info@eastharbourgroup.com

1.4 Emergency telephone number

Emergency telephone:	0800 246 1274
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Section 2: Hazardous identification

2.1 Classification of the substance or mixture

(EC) No 1272/2008

H314 Causes severe skin burns and eye damage

2.2 Label elements

Hazard Pictograms



Signal Word Danger

Hazard Statement

H314 Causes severe skin burns and eye damage

Precautionary Statement

P234 Keep only in original packaging.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE/doctor.

P305+P351+P338 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

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P363 Wash contaminate clothing before reuse.

Supplemental hazard statements: NONE

Reduced labelling (<=125ml)

Pictogram



Signal word Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage

Precautionary statement(s)

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

Supplement Hazard statements: NONE

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 3: Composition/information on ingredients

3.1 Substances

Formula H₂SO₄
 Molecular weight 98.08g/mol
 CAS No. 7664-93-9
 EC No. 231-639-5
 Index No. 016-020-00-8

Component	Classification	Concentration
Sulphuric acid		
CAS-No. 7664-93-9 EC-No. 231-639-5 Index-No. 016-020-00-8	Met. Corr. 1; Skin Corr. 1A; Eye Dam. 1; H290, H314, H318 Concentration limits: >= 15 %: Skin Corr. 1A, H314; 5 - < 15 %: Skin Irrit. 2, H315; 5 - < 15 %: Eye Irrit. 2, H319; >= 0.3 %: Met. Corr. 1, H290;	<=100%

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4: First aid measures

4.1 Description of first aid measures

Inhalation

Move the exposed person to fresh air. If breathing stops, provide artificial respiration.

Eye contact

Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention

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Skin contact

Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.

Ingestion

DO NOT INDUCE VOMITTING. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly. Seek medical attention.

General information

If you feel unwell, seek medical advice (show the label where possible).

Section 5: Fire-fighting measures

5.1 Fire Fighting Media and Instructions:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

No data available.

5.3 Advice for firefighters

Wear suitable respiratory equipment when necessary.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing. Avoid breathing vapours, mist or gas. Avoid formation of dust. Ensure adequate ventilation of the working area. Evacuate personnel to a safe area.

6.2 Environmental precautions

If safe to do so, prevent further leakage or spillage. Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Avoid raising dust. Sweep up. Transfer to suitable, labelled containers for disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Never carry a bottle by its top. Avoid formation of dust. Ensure adequate ventilation of the working area.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool, dry and well-ventilated area. Keep in properly labelled containers. General principles of chemical storage: Store the minimum stock levels of hazardous chemicals, always disposing of chemicals that are no longer required. Store large breakable containers, particularly of liquids, below shoulder height. Ensure containers and bottle tops are sealed properly to avoid unnecessary leakage of vapours. Ensure hazard labels are clear and never store in direct sunlight.

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Section 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Exposure limit values

Sulphuric Acid 98% CAS Number 7664-93-9	Long Term (8hr TWA)	Short Term (15 min period STEL)
Ppm	N/A	N/A
Mg/m ³	0.05	N/A

Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

Figures are based upon UK EH40 WEL (Workplace Exposure Limits)

8.2 Exposure controls /

Appropriate engineering controls

Engineering Measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the working day. Ensure adequate ventilation of the working area. Ensure quickly accessible eye-wash stations are available.

Eye / face protection

Wear appropriate well-fitting protective eyeglasses or chemical safety goggles as described by EN166 (EU Standard)

Skin / hand protection

Wear appropriate protective gloves and clothing to prevent skin exposure. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact.

Respiratory protection

Use EN149 (EU Standard) approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.



Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State	Liquid
Colour	Light yellow
Melting point	3
Boiling point	No data available
Relative density: (g/cm ³)	1.8-1.84
Chemical formula	H ₂ SO ₄
Molecular weight: (g/mol)	98.00

Section 10: Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical Stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available



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10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

Section 11: Toxicological Information

11.1 Information toxicological effects:

Acute toxicity	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available

Sulphuric Acid 98% Oral Rat LD50 (mg/kg): 2140

Section 12: Ecological Information

12.1 Toxicity: Toxicity to daphnia and other aquatic vertebrates

Sulphuric Acid 98% EC50 Daphnia magna (Water flea) (mg/l – 48hr): 29

Section 13: Disposal considerations

13.1 Waste treatment methods

General information

Dispose of in compliance with all local and national regulations

Disposal methods

Contact a licensed waste disposal company. Dispose of this material and its container to hazardous or special waste point.

Section 14: Transport Information

ADR	IMDG	IATA	ADN	RID
UN NUMBER				
UN1830	UN1830	UN1830	UN1830	UN1830
UN Proper Shipping Name				
SULFURIC ACID 96-98%	SULFURIC ACID 96-98%	SULFURIC ACID 96-98%	SULFURIC ACID 96-98%	SULFURIC ACID 96-98%
Transport document description				
UN1830 Sulphuric Acid, 8, II	UN1830 Sulphuric Acid, 8, II	UN1830 Sulphuric Acid, 8, II	UN1830 Sulphuric Acid, 8, II	UN1830 Sulphuric Acid, 8, II
Transport Hazard Classes				
8	8	8	8	8
Packaging Group				
II	II	II	II	II
Environmental Hazards				
Dangerous for the environment: YES	Dangerous for the environment: YES Marine Pollutant: YES	Dangerous for the environment: YES	Dangerous for the environment: YES	Dangerous for the environment: YES

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This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Regulations Labelling according to Regulation (EC) No 1272/2008.

Section 16: Other Information

16.1 Other information: Text of hazard statements in Section 3	

If above table is empty – no components need to be disclosed according to the applicable regulations.

Further information:

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials. East Harbour Group Limited will not be held liable for any damage or injury caused by this product and does not obviate the requirement for end users to carry out their own workplace and specific use risk assessment.