

SAFETY DATA SHEET

20% Sulphuric Acid

According to Regulation (EC) No 1907/2006, Annex II as amended by Regulation No 453/2010

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

1.1 Product identifier

Product name Sulphuric Acid 20%

Product No. PL.7100

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

Identified uses Laboratory reagent.

Uses advised against No specific uses advised against are identified.

1.3 Details of the supplier of the safety data sheet

Supplier Pro-Lab Diagnostics
3 Bassendale Road
Bromborough
Wirral, UK CH62 3QL
Tel: +44 (0) 151 353 1613
Fax: +44 (0) 151 353 1614
www.pro-lab.com

1.4 Emergency telephone number

+44 (0)151 353 1613 - Monday to Friday 9:00 to 17:00

+44 (0)7714 429 646 - outside the above hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Corrosive to metals (Category 1), H290

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

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Pictogram



Signal word

Warning

Hazard statement(s)
H290

May be corrosive to metals.

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Precautionary statement(s) None

Supplemental Hazard Statements None

According to European Directive 67/548/EEC as amended

Hazard symbol(s) None

R-phrases None

S-phrase(s) Safety data sheet available for professional user on request.

2.3 Hazards not otherwise classified (HNOC)

None identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Formula H_2SO_4
Molecular weight 98.08 g/mol

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Sulphuric Acid		
CAS-No. 7664-93-9	Met. Corr. 1; Skin Corr. 1A;	20%
EC-No. 231-639-5	H290, H314	
Index-No. 016-020-00-8		
Registration No. 01-2119458838-20-XXXX		

Hazardous ingredients according to Directive 1999/45/EC

Component	Classification	Concentration
Sulphuric Acid		
CAS-No. 7664-93-9	C, R35	20%
EC-No. 231-639-5		
Index-No. 016-020-00-8		
Registration No. 01-2119458838-20-XXXX		

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

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye contact

Flush eyes with water as a precaution.

Skin contact

Wash off with soap and plenty of water. Consult a physician.

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Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling Section (2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Sulphur oxides.

5.3 Advice for firefighters

Special fire fighting procedures

Avoid breathing fire vapours. Move container from fire area if it can be done without risk. Water spray should be used to cool containers and to reduce vapours. Keep run-off water out of sewers and water sources. Be aware of danger for fire to re-start.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. For personal protection see Section 8.

6.2 Environmental precautions

Should not be released into the environment.

6.3 Methods and material for containment and cleaning up

Use inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. For disposal see Section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. For precautions see Section 2.2.

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7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be resealed and kept upright to prevent leakage.
Storage class (TRGS 510): non-combustible, corrosive hazardous materials.

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

This product does not contain any hazardous materials with occupational exposure limits.

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Sulphuric Acid	7664-93-9	TWA	0.05 mg/m ³	UK EH40 WEL – Workplace Exposure Limits
	Remarks	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.		
		TWA	0.05 mg/m ³	Europe COMMISSION DIRECTIVE 2009/161/EU establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
		When selecting an appropriate exposure monitoring method , account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds.		
		TWA	0.05 mg/m ³	UK EH40 WEL – Workspace Exposure Limits
		Where no specific short-term exposure limit is listed, a figure three times the long term exposure should be used.		

Derived No Effect Level (DNEL)

Application Area	Exposure routes	Health effect	Value
Workers	Inhalation	Acute local effects	0.1 mg/m ³
Workers	Inhalation	Long-term local effects	0.05 mg/m ³

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Predicted No Effect Concentration (PNEC)

Compartment	Value
Marine water	0.00025 mg/l
Fresh water	0.0025 mg/l
Marine sediment	0.002 mg/kg
Fresh water sediment	0.002 mg/kg
Onsite sewage treatment plant	8.8 mg/l

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Control of environmental exposure

Do not let product enter drains.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Form: clear, liquid
Odour	Not determined
Odour threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	1.01 g/ml at 25°C
Water solubility	Not determined
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	Not determined
Oxidizing properties	Not determined

9.2 Other safety information

Not determined.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Other decomposition products - No data available.

In the event of fire: see Section 5.

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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

No data available.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed carcinogen by IARC.

Reproductive toxicity

No data available.

Specific target organ toxicity – single exposure

No data available.

Specific target organ toxicity – single exposure

No data available.

Aspiration hazard

No data available.

Additional Information

RTECS : Not available

To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

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

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12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1. UN number

ADR/RID: 3264

IMDG: 3264

IATA: 3264

14.2. UN proper shipping name

ADR/RID: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Sulphuric Acid)

IMDG: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Sulphuric Acid)

IATA: Corrosive liquid, acidic, inorganic, n.o.s. (Sulphuric Acid)

14.3. Transport hazard class(es)

ADR/RID: 8

IMDG: 8

IATA: 8

14.4. Packing group

ADR/RID: III

IMDG: III

IATA: III

14.5. Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6. Special precautions for user

Not applicable.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

15.2 Chemical Safety Assessment

A chemical safety assessment has been carried out for this substance.

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16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage.
Met. Corr.	Corrosive to metals.
Skin Corr.	Skin corrosion.

Full text of R-phrases referred to under sections 2 and 3.

C	Corrosive
R35	Causes severe burns

Disclaimer

The information in this safety data sheet was obtained from current and reliable sources. However, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Pro-Lab Diagnostic's control, it is the user's responsibility to perform thorough testing of this product when used in combination with any other product. It is suggested that users familiarise themselves with this safety data sheet before handling the product.