# Vickers Laboratories Ltd - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1

Revision date: Date printed: 19 February 2021 12 August 2023

181

# Section 1. Identification

1	Product Identifier	1812
	Product Name	SULPHURIC ACID 0.5M (N/1)
	CAS Number REACH Registration No	7664-93-9 A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.
	Molecular Formula	$H_{2}SO_{4} = 98.07$

#### 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier

1.4

1.1

Vickers Laboratories Ltd



Grangefield Industrial Estate Richardshaw Road Pudsey West Yorkshire LS28 6QW UNITED KINGDOM

	Phone Fax Email Website	44 0113 2362811 +44(0)113 2362703 safety@viclabs.co.uk www.viclabs.co.uk
ŀ	Emergency Telephone	(08:00-16:30) +44(0) 113 2362811 (24hr) 112
		(Have this document to hand)

## Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

### Classification according to regulation 1272/2008/EC

Not classified as hazardous.

### 2.2 Label elements

### Labelling according to regulation 1272/2008/EC

Not classified as hazardous.

## Section 3. Composition

### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Sulphuric acid	7664-93-9	231-639-5	01-2119458838-20-XXXX	4.8%	Skin Corr. 1A

### Section 4. First Aid

#### 4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. Seek medical attention if irritation persists.
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.
Inhalation	Remove from exposure.
Ingestion	Wash out the patients mouth thoroughly with water.
Demonal protection for first	Wear protective gloves / ave protection

Personal protection for first Wear protective gloves / eye protection. aiders

### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

### Section 5. Fire Fighting

#### 5.1 Extinguishing media

Extinguishing Media	Consider what other flammable materials are present and act accordingly.
Unsuitable Media	Nothing specified.

#### 5.2 Special hazards arising from the substance or mixture Hazards

Presents no specific fire danger.

#### 5.3 Advice for firefighters

Advice for firefighters

Consider all other materials in the vicinity.

### Section 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so.

#### **6.2 Environmental precautions**

Personal Protection

Enviromental

Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

### 6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.

Minor Spillage Wash area down with copious amounts of water.

### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing. Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

#### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage .

### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Expo	sure Limits
			Long Term (8hr TWA)	Short Term 15min period)
Sulphuric acid	7664-93-9	4.8%	- 0.05 mg/m-3	
Exposure data source(s)		IOELV: Indicative Occupatio	nal Exposure Limit Value.	
8.2 Exposure cont	rols			
			ion to maintain vapour concentrations bele e respirator, or use self contained breathing	
Hand Protection		Use nitrile gloves or PVC gauntlets. Gloves must be inspected prior to use. Selected gloves have to satisfty the specifications of EU directive 89/686/EEC and the standard EN 374 derived from it.		
Eye Protectio	n	Use tightly fitting chemical sp	blash proof glasses or goggles.	
Skin Protecti	on	If skin contact or contamination	on of clothing is likely, protective clothing	g must be worn.
Special Haza	rds	No special precautions require	ad	

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance	Clear colourless liquid.
Odour	Odourless.
pH	1 @ 20°C
Boiling Point	Aqueous solution
Melting Point	Not applicable
Flash Point	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	No.
Oxidising Properties	No.
Vapour Pressure	1mmHg @ 146°C
Relative Density	1.0308
Water Solubility	Completely soluble in water with moderate increase in temperature.

### 9.2 Other information

No data available.

## Section 10. Stability & 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 specific conditions.
10.5	Incompatable Materials	Alkalis.
10.6	Hazardous Decomposition Products	None unusual.

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Eyes	The liquid may be irritating to the eyes.
Skin	Presents no significant hazard by skin contact.

LD50 Skin	Not available
Ingestion	Presents no significant hazard by ingestion.
LD50 Oral	2140mg/kg Rat
Inhalation	Presents no significant health hazard by inhalation.
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

## Section 12. Ecological

12.1	Toxicity	No specific environmental hazard.
	LC50 Algal	Not available
	LC50 Crustacea	Not available
	LC50 Fish	Not 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 & vPvB assessment	Assessment not required.
12.6	Other adverse effects	None known at present.

## Section 13. Disposal Considerations

#### 13.1 Waste treatment methods

Disposal Methods Dilute in a large excess of water and carefully neutralise with soda ash, then wash to drain with copious amounts of water.

Contaminated Packaging Wash out containers with water. Use a licensed waste disposer.

### Section 14. Transport Information

14.1	UN Number	Non-restricted
14.2	Proper Shipping Name	Non-restricted
14.3	Transport classes	
	UN classification	None
	Subsidiary hazard(s)	None
	Transport category	None
	ADR Hazard ID	Non-restricted
	Tunnel Restriction Code	Non-restricted
14.4	Packing Group	None
14.5	Environment hazards	See section 12.
14.6	Special precautions for user	No special precautions required.
14.7	Transport in bulk	Not transported in bulk.

## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for subtance/mixture.

Not classified as hazardous under Classification, Labelling & Packaging of Substances & Mixtures Regulations (1272/2008/CE).

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 1.1 (Supercedes revision 1.0)

Revision date: 19 February 2021

Reviewed by chemist: 19 February 2021

Printed date: 12 August 2023

Copyright: 2023 Vickers Laboratories Ltd