Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 1.1

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Section 1. Identification

Product Identifier	1979
Product Name	SULPHURIC ACID 1.0M (2N)
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



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Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 2 Serious eye damage/irritation, category 2 H315: Causes skin irritation. H319: Causes serious eye irritation.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Warning

Hazard Pictograms



Causes skin irritation. Causes serious eye irritation.

Precautionary Statements

Wear protective gloves / protective clothing / eye protection / face protection. Wash thoroughly after handling. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

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	9.3%	Skin Corr. 1A
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Section 4. First Aid

4.1 Description of first aid measures

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Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If discomfort persists OBTAIN MEDICAL ATTENTION.
Inhalation	Remove from exposure.
Ingestion	If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

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

Causes skin irritation and may cause burns if contact is prolonged Causes serious eye irritation.

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	Do not allow water to come into direct contact with material.

5.2 Special hazards arising from the substance or mixture

Hazards

s 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

Personal Protection Avoid breathing vapour. 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

Enviromental

Keep material out of sewers, storm drains, surface waters and soil. 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 SpillageContain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with
copious amounts of water.Minor SpillageNeutralise spill with soda ash, lime, calcium carbonate or sodium bicarbonate. 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 E	xposure Limits
			Long Term (8hr TWA)	Short Term 15min period)
Sulphuric acid	7664-93-9	9.3%	- 0.05 mg/m-3	3
Exposure data source(s)		IOELV: Indicative Occupation	nal Exposure Limit Value.	
8.2 Exposure controls				
Respiratory Protection			ion to maintain vapour concentrations respirator, or use self contained breat	below exposure limits. If not, use a well hing apparatus.
Hand Protec	tion	Use nitrile gloves or PVC gau	ntlets.	
Eye Protection	on	Use tightly fitting chemical sp	lash proof glasses or goggles.	
Skin Protect	ion	If skin contact or contamination	on of clothing is likely, protective cloth	hing must be worn.
Special Haza	ards	No special precautions require	ed.	

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	1.0608
Water Solubility	Completely soluble in water with moderate increase in temperature.

9.2 Other information

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	Oxidising and reducing agents. Alkalis. Reacts with most metals to produce extremely flammable hydrogen gas. Peroxides, potassium permanganate, sodium, potassium, platinum, potassium tertiary butoxide. Combustible materials. Reacts with sulphide, phosphide, cyanide, carbide and silicides producing very toxic gases. Many organic compounds.
10.6	Hazardous Decomposition Products	Toxic and acidic dense white fumes.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes The liquid will irritate the eyes and can cause conjunctivitis.	
Skin The liquid will be irritating to the skin.	
LD50 Skin Not available	
Ingestion Ingestion of large amounts may cause nausea, abdominal discomfort, vomiting and diarr	hoea.
LD50 Oral Not available	
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	Dangerous to aquatic organism: causes damage to crops and vegetables. Natural alkalinity reduces damaged caused by low pH. Aquatic toxicity LC50 Bluegill sunfish. 24 hr fresh water-24.5 mg/l, 48 hr tap-water-49 mg/l.	
	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	2796
14.2	Proper Shipping Name	Sulphuric acid
14.3	Transport classes UN classification Subsidiary hazard(s) Transport category ADR Hazard ID Tunnel Restriction Code	8 None 2 80 E
14.4	Packing Group	II
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.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification	Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 2
Signal word	Warning
Hazard Pictograms	
Hazard Statements	H315, H319 Causes skin irritation. Causes serious eye irritation.
Precautionary Statements	P280, P264, P301+P330+P331, P303+P361+P353, P305+P351+P338 Wear protective gloves / protective clothing / eye protection / face protection. Wash thoroughly after handling. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

15.2 Chemical safety assessment

Assessment not required.

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.

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