

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

## MATERIAL SAFETY DATA SHEET (MSDS)

### SULPHURIC ACID ABT.98% LR

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name : SULPHURIC ACID ABT.98% LR

Product code : SA0011402500

Identification of the product : Sulphuric acid  
 CAS No: 7664-93-9  
 EC No :231-639-5  
 Annex No :016-020-00-8

Chemical formula : H<sub>2</sub>O<sub>4</sub>S

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

Use : Industrial. For professional use only.

##### 1.3. Details of the supplier of the safety data sheet

Company identification : SUVCHEM  
 Chaitanya Tower, 2nd Floor, Office # 206,  
 Siddharth Nagar, S.V. Road,  
 Goregaon (West), Mumbai - 400062,  
 Maharashtra, India.  
 Contact: +91 22 28725393 / 94 / 95  
 Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

##### 2.1. Classification of the substance or mixture

##### Classification EC 67/548 or EC 1999/45

Classification : C; R35

##### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318  
 Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314

##### 2.2. Label elements

##### Labelling EC 67/548 or EC 1999/45

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**SULPHURIC ACID ABT.98% LR**
**2. Hazards identification -DSD (continued)**

Symbol(s)



Symbol(s)

: C : Corrosive

R Phrase(s)

: R35 : Causes severe burns.

S Phrase(s)

: S1/2 : Keep locked up and out of reach of children.

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S30 : Never add water to this product.

S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible).

Contains

: Sulphuric acid

**Labelling Regulation EC 1272/2008 (CLP)**

Hazard pictograms



Signal words

: Danger

Hazard statements

: H314 : Causes severe skin burns and eye damage.

Precautionary statements

• General

: P102: Keep out of reach of children.

P103: Read label before use.

P101: If medical advice is needed, have product container or label at hand.

• Prevention

: P280: Wear protective gloves, protective clothing, eye protection, face protection.

P260: Do not breathe dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

• Response

: P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.

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

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

P363: Wash contaminated clothing before reuse.

• Storage

: P405: Store locked up.

• Disposal considerations

: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Contains

: Sulphuric acid

**2.3. Other hazards**

Other hazards

: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

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### SULPHURIC ACID ABT.98% LR

#### 3. Composition/information on ingredients

Substance / Preparation : Sulphuric acid

EC No :231-639-5  
 Annex No :016-020-00-8  
 Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Sulphuric acid	: 100 %	7664-93-9	231-639-5	016-020-00-8	----	C; R35 Skin Corr. 1A+ _ H314 Eye Dam 1 _ H318

Contains no other components or impurities which will influence the classification of the product.

#### 4. First aid measures

##### 4.1. Description of first aid measures

- Inhalation** : Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.
- Skin contact** : Immediately call a POISON CENTER or doctor. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.
- Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
- Ingestion** : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor.

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

- Symptoms relating to use** : Causes severe skin burns and eye damage.  
 Causes serious eye damage.

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

- General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

#### 5. Fire-fighting measures

##### 5.1. Extinguishing media

- Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media** : Do not use a heavy water stream.
- Surrounding fires** : Use water spray or fog for cooling exposed containers.

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

**MATERIAL SAFETY DATA SHEET (MSDS)**
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**5. Fire-fighting measures (continued)**

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.  
Thermal decomposition generates : Corrosive vapours.

**5.3. Advice for fire-fighters**

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

**6. Accidental release measures**
**6.1. Personal precautions, protective equipment and emergency procedures**

**For emergency responders** : Equip cleanup crew with proper protection.  
Ventilate area.

**For non-emergency personnel** : Evacuate unnecessary personnel.

**6.2. Environmental precautions**

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

**6.3. Methods and material for containment and cleaning up**

**Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

**Handling** : Wash thoroughly after handling. Avoid contact during pregnancy or while nursing.  
Do not breathe dust, fume, gas, mist, vapours, spray.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

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**7. Handling and storage (continued)**

Storage regulation : Comply with applicable regulations.  
 Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

**7.3. Specific end use(s)**

Specific end use(s) : None.

**8. Exposure controls/personal protection**
**8.1. Exposure controls**

Personal protection : Avoid all unnecessary exposure.  
 • Respiratory protection : Wear approved mask.  
 • Hand protection : Wear protective gloves.  
 • Skin protection : Wear suitable protective clothing.  
 • Eye protection : Chemical goggles or face shield.  
 • Others : When using, do not eat, drink or smoke.

**8.2. Control parameters**

Occupational Exposure Limits : No data available.  
 VLA-ED [mg/m<sup>3</sup>] : 1  
 VLA-EC [mg/m<sup>3</sup>] : 3  
 TLV© -TWA [mg/m<sup>3</sup>] : 1

**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

Physical state at 20 °C : Liquid.  
 Colour : Clear Colorless  
 Odour : Odorless  
 Odour threshold : No data available.  
 pH value : No data available.  
 Melting point [°C] : 11  
 Decomposition point [°C] : N/A  
 Critical temperature [°C] : N/A  
 Auto-ignition temperature [°C] : N/A  
 Flammability (solid, gas) : N/A  
 Flash point [°C] : N/A

**MATERIAL SAFETY DATA SHEET (MSDS)**  
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**9. Physical and chemical properties (continued)**

Boiling point [°C]	: 290
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: < 0.0076
Vapour density	: 3,4
Density [g/cm <sup>3</sup> ]	: 1.83
Relative density, gas (air=1)	: 3.4
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Complete.
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: Acidic.
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A

**9.2. Other information**

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

**10. Stability and reactivity**
**10.1. Reactivity**

Reactivity	: Not established.
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**10.2. Chemical stability**

Chemical stability	: Stable under recommended storage conditions.
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**10.3. Possibility of hazardous reactions**

Hazardous reactions	: Not established.
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**10.4. Conditions to avoid**

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
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**10.5. Incompatible materials**

**MATERIAL SAFETY DATA SHEET (MSDS)**  
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**10. Stability and reactivity (continued)**

Materials to avoid : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.  
 Thermal decomposition generates : Corrosive vapours.

**11. Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

- Inhalation : Based on available data, the classification criteria are not met.
- Dermal : Based on available data, the classification criteria are not met.
- Ingestion : Based on available data, the classification criteria are not met.

Corrosion : Causes severe skin burns and eye damage.  
 Causes serious eye damage.

Irritation : Based on available data, the classification criteria are not met.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

**12. Ecological information**
**12.1. Toxicity.**

Toxicity information : Not established.

WGK class (Germany) : 1

**12.2. Persistence - degradability**

Persistence - degradability : Biodegradable.

**12.3. Bioaccumulative potential**

Bioaccumulative potential : Not established.

**12.4. Mobility in soil**



**MATERIAL SAFETY DATA SHEET (MSDS)**  
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**12. Ecological information (continued)**

Mobility in soil : Not established.

**12.5. Results of PBT and vPvB assessment**
**Results of PBT and vPvB assessment :** The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**12.6. Other adverse effects**

Environmental precautions : Avoid release to the environment.

**13. Disposal considerations**
**13.1. Waste treatment methods**
**General :** Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.  
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**14. Transport information**
**14.1. Land transport (ADR-RID)**
**Proper shipping name :** SULPHURIC ACID with more than 51% acid  
**UN N° :** 1830  
**H.I. nr :** 80  
**ADR - Class :** 8  
**Labelling - Transport :** 8 : Corrosive substance.

**ADR - Classification code :** C1  
 C1  
**ADR - Group :** II  
**ADR - Packing instructions :** P001  
**ADR - Limited Quantity :** 1 L  
**ADR - Tunnel code**




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#### 14. Transport information (continued)

: E : Passage forbidden through tunnels of category E.

##### 14.2. Sea transport (IMDG) [English only]

Proper shipping name : SULPHURIC ACID with more than 51% acid  
 UN N° : 1830  
 IMO-IMDG - Class or division : 8 : Corrosive substance.  
 IMO-IMDG - Packing group : II  
 IMO-IMDG - Packing instructions : P001  
 IMO-IMDG - Limited quantities : 1 L  
 IMO-IMDG - Marine pollution : No  
 EMS-Nr : F-A S-B

##### 14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : SULPHURIC ACID with more than 51% acid  
 UN N° : 1830  
 IATA - Class or division : 8 : Corrosive substance.  
 IATA - Packing group : II  
 IATA - Passenger and Cargo Aircraft : ALLOWED  
   - Passenger and Cargo - Packing instruction : 851  
   - Passenger and Cargo - Maximum Quantity/Packing : 1 L  
 IATA - Cargo only : ALLOWED  
   - Cargo only - Packing instruction : 855  
   - Cargo only - Maximum Quantity/Packing : 30 L  
 IATA - Limited Quantities : 0.5 L  
 ERG-Nr : 8L

#### 15. Regulatory information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.  
 REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.  
 REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

##### 15.2. Chemical Safety Assessment

## MATERIAL SAFETY DATA SHEET (MSDS)

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

### DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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