

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% AR

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

##### 1.1. Product identifier

Trade name : SULPHURIC ACID ABT.98% AR

Product code : SA0011502500

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

Chemical formula : H2O4S

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

##### 2.2. Label elements

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

### MATERIAL SAFETY DATA SHEET (MSDS)

#### SULPHURIC ACID ABT.98% AR

#### 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.

### MATERIAL SAFETY DATA SHEET (MSDS)

#### SULPHURIC ACID ABT.98% AR

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

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

**Symptoms relating to use** : Causes severe skin burns and 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

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

##### 5.3. Advice for fire-fighters

### MATERIAL SAFETY DATA SHEET (MSDS)

#### SULPHURIC ACID ABT.98% AR

#### 5. Fire-fighting measures (continued)

- 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** : Avoid contact during pregnancy or while nursing. Wash thoroughly after handling. 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.
- 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.

### MATERIAL SAFETY DATA SHEET (MSDS)

#### SULPHURIC ACID ABT.98% AR

#### 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 <sup>©</sup> -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
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

**MATERIAL SAFETY DATA SHEET (MSDS)**
**SULPHURIC ACID ABT.98% AR**
**9. Physical and chemical properties (continued)**

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.
------------	--------------------

**10.2. Chemical stability**

Chemical stability	: Stable under recommended storage conditions.
--------------------	--

**10.3. Possibility of hazardous reactions**

Hazardous reactions	: Not established.
---------------------	--------------------

**10.4. Conditions to avoid**

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
---------------------	--

**10.5. Incompatible materials**

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**

### MATERIAL SAFETY DATA SHEET (MSDS)

#### SULPHURIC ACID ABT.98% AR

#### 11. Toxicological information (continued)

##### 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

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.

## MATERIAL SAFETY DATA SHEET (MSDS)

### SULPHURIC ACID ABT.98% AR

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



: 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]

## MATERIAL SAFETY DATA SHEET (MSDS)

### SULPHURIC ACID ABT.98% AR

#### 14. Transport information (continued)

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

Chemical Safety Assessment	: It has not been carried out.
----------------------------	--------------------------------

#### 16. Other information

Revision	: Revision - See : *
Abbreviations and acronyms	: PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
List of relevant R phrases (heading 3)	: R35 : Causes severe burns.
List of full text of H-statements in section 3	: H314 : Causes severe skin burns and eye damage. H318 : Causes serious eye damage.
Further information	: None.

**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.

**End of document**