

## Safety Data Sheet Sulfuric Acid, 1% < 3%

SDS no. TXDX51FY • Version 1.0 • Date of issue: 2026-02-21

### SECTION 1: Identification

#### GHS Product identifier

Product name Sulfuric Acid, 1% < 3%

#### Recommended use of the chemical and restrictions on use

Laboratory reagent.

#### Supplier's details

Name ChemSupply Australia Pty Ltd  
Address 38-50 Bedford Street  
5013 Gillman South Australia  
Australia

Telephone 08 8440 2000  
email [www.chemsupply.com](http://www.chemsupply.com)

#### Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

### SECTION 2: Hazard identification

#### General hazard statement

Classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

#### Classification of the substance or mixture

#### GHS classification in accordance with: UN GHS revision 7

- Corrosive to metals, Cat. 1
- Skin corrosion/irritation, Cat. 2
- Serious eye damage/eye irritation, Cat. 2A

#### GHS label elements, including precautionary statements

#### Pictograms



#### Signal word

Warning

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#### Hazard statement(s)

H290 May be corrosive to metals  
H315 Causes skin irritation  
H319 Causes serious eye irritation

#### Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water/soap  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P390 Absorb spillage to prevent material-damage.  
P406 Store in a corrosive resistant/... container with a resistant inner liner.

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## SECTION 3: Composition/information on ingredients

### Mixtures

<b>Molecular weight</b>	98.08	
Component	Identification	Weight %
Water	CAS no.: 7732-18-5 EC no.: 231-791-2	97 - 99 %
Sulfuric acid	CAS no.: 7664-93-9 EC no.: 231-639-5 Index no.: 016-020-00-8	>= 1 - > 3 %

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## SECTION 4: First-aid measures

### Description of necessary first-aid measures

General advice First Aid Facilities: Maintain eyewash fountain and normal washroom facilities in work area.

If inhaled If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

In case of skin contact If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

In case of eye contact If in eyes, hold eyelids apart and flush eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes.

If swallowed If swallowed, do NOT induce vomiting.

### Most important symptoms/effects, acute and delayed

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

### Indication of immediate medical attention and special treatment needed, if necessary

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

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## SECTION 5: Fire-fighting measures

### Suitable extinguishing media

Use fire extinguishing media appropriate for surrounding environment. Use water spray, dry chemical, carbon dioxide, or appropriate foam. This material is substantially water.

### Specific hazards arising from the chemical

Irritating and highly toxic fumes and gases, including toxic oxides of sulfur (SO<sub>x</sub>). Contact with most metals (such as aluminium, tin, lead and zinc) causes formation of flammable and explosive hydrogen gas (H<sub>2</sub>). However, the risk is reduced due to the weaker concentration of sulfuric acid present.

Material does not burn. Runoff may pollute waterways.

### Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

### Methods and materials for containment and cleaning up

Neutralize with dilute sodium hydroxide, lime or sodium carbonate.

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## SECTION 7: Handling and storage

### Precautions for safe handling

Avoid contact with eyes, skin, or clothing. May corrode metallic surfaces.

### Conditions for safe storage, including any incompatibilities

Store in tightly closed containers, in a cool, dry, well-ventilated area away from incompatible substances.

Corrosive in presence of aluminium, zinc, stainless steel(304), stainless steel(316), copper. Moderate corrosive effect on bronze.

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## SECTION 8: Exposure controls/personal protection

### Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

#### Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand Protection: Normally not required but if in doubt ensure hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

#### Body protection

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Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

#### Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear, colourless liquid.
Color	No data available.
Odor	Odourless.
Odor threshold	No data available.
Melting point/freezing point	May start to solidify at -0.1 °C based on data for: water.
Boiling point or initial boiling point and boiling range	~100°C
Flammability	No data available.
Lower and upper explosion limit/ flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	Acidic; pH of 0.01 N solution (~0.05%): 2.1; pH of 0.1 N solution (~0.5%): 1.2; pH of 1.0 N solution (~5.0%): 0.3.
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Miscible. Solubility in Organic Solvents: Insoluble in methanol, diethyl ether, n-octanol (0.5%).
Partition coefficient n-octanol/ water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: Approx. 1
Relative vapor density	No data available.

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Particle characteristics	No data available.
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#### Supplemental information regarding physical hazard classes

No data available.

#### Further safety characteristics (supplemental)

No data available.

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## SECTION 10: Stability and reactivity

### Reactivity

Stable under normal conditions of storage and handling.

Reacts with incompatible materials

### Chemical stability

Stable under normal temperatures, pressures and conditions of use and storage.

### Possibility of hazardous reactions

Flammable hydrogen gas is generated by the action of the acid on most metals (i.e. lead, copper, tin, zinc, aluminium, etc.).

Reacts with alkali metals and alkaline earth metals.

### Conditions to avoid

Metals, excess heat, extremes of temperature, direct sunlight, combustible materials, organic materials, oxidizers, amines, bases, and incompatible materials.

### Incompatible materials

Alkali metals, alkaline earth metals, alkali compounds, ammonia, alkali hydroxide solutions, metals, metal alloys, organic solvents, permanganates.

### Hazardous decomposition products

Irritating and highly toxic fumes and gases, including toxic oxides of sulfur (SO<sub>x</sub>). Contact with most metals (such as aluminium, tin, lead and zinc) causes formation of flammable and explosive hydrogen gas (H<sub>2</sub>). However, the risk is reduced due to the weaker concentration of sulfuric acid present.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Ingestion of this product may cause irritation and possible burns of mucous membranes in the mouth, pharynx, oesophagus, and gastrointestinal tract, causing nausea, vomiting and diarrhoea.

Inhalation of product vapours may cause irritation to the mucous membranes of the nose, throat and respiratory system, with sore throat, coughing, and shortness of breath.

#### Skin corrosion/irritation

May causes irritation to skin and mucous membranes. Symptoms may include redness, itching, and pain.

#### Serious eye damage/irritation

Eye: Symptoms may include tearing, blurred vision, redness, stinging, and pain.

#### Respiratory or skin sensitization

Not classified based on available information.

#### Germ cell mutagenicity

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Not classified based on available information.

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **Specific target organ toxicity (STOT) - single exposure**

Not classified based on available information.

#### **Specific target organ toxicity (STOT) - repeated exposure**

Not classified based on available information.

#### **Aspiration hazard**

Not expected to be an aspiration hazard.

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## SECTION 12: Ecological information

#### **Toxicity**

Ecotoxicity: The following applies to sulfuric acid in general: Harmful effect on aquatic organisms. Toxic effect on fish and algae. Caustic even in diluted form. Does not cause biological oxygen deficit. Endangers drinking-water supplies if allowed to enter soil and/or waters in large quantities. Neutralisation possible in waste water treatment plants.

Short Summary of Assessment of Environmental Impact: When released into the soil, this material may leach into groundwater. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet and dry deposition.

Acute Toxicity - Daphnia: Daphnia magna EC50: 29 mg/l /24 h (pure substance).

#### **Persistence and degradability**

No data available.

#### **Bioaccumulative potential**

An enrichment in organisms should not be expected.

#### **Mobility in soil**

No data available.

#### **Results of PBT and vPvB assessment**

No data available.

#### **Endocrine disrupting properties**

No data available.

#### **Other adverse effects**

No data available.

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## SECTION 13: Disposal considerations

#### **Disposal methods**

##### **Product disposal**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

##### **Waste treatment**

Neutralise remaining product with lime, soda ash or sodium bicarbonate, adjusting pH to 6-8. Flush to sewer as greatly diluted solution.

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#### Sewage disposal

An enrichment in organisms should not be expected.

#### Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

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## SECTION 14: Transport information

#### ADG (Road and Rail)

UN Number: 3264

Class: 8

Packing Group: III

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS SULFURIC ACID)

#### Hazchem emergency action code (EAC)

2R

#### IMDG

UN Number: 3264

Class: 8

Packing Group: III

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS SULFURIC ACID)

#### IATA

UN Number: 3264

Class: 8

Packing Group: III

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS SULFURIC ACID)

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## SECTION 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

##### Australia SUSMP

Poison Schedule: S6

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## SECTION 16: Other information

#### Further information/disclaimer

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

#### Preparation information

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

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Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), [hcis.safeworkaustralia.gov.au](https://hcis.safeworkaustralia.gov.au)

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)