

Safety Data Sheet Sulfur Dioxide 5% Aqueous Solution (Sulfurous Acid)

SDS no. 4GJTQ170 • Version 1.0 • Date of issue: 2023-01-19

SECTION 1: Identification

GHS Product identifier

Product name Sulfur Dioxide 5% Aqueous Solution (Sulfurous Acid)

Brand ChemSupply

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

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

- Serious eye damage/eye irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1B

GHS label elements, including precautionary statements

Pictograms



Signal word Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage

H333 May be harmful if inhaled

Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P304+P312 IF INHALED: Call a POISON CENTER/doctor/physician. if you feel unwell.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor/physician

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Sulfurous Acid (CAS no.: 7782-99-2; EC no.: 231-973-1)	5 - < 10 % (weight)
CLASSIFICATIONS: Acute toxicity, inhalation, Cat. 4; Serious eye damage/eye irritation, Cat. 1; Skin corrosion/irritation, Cat	: 1B. HAZARDS: H314 - Causes severe skin

CLASSIFICATIONS: Acute toxicity, innalation, Cat. 4; Serious eye damage/eye irritation, Cat. 1; Skin corrosion/irritation, Cat. 1B. HAZARDS: H314 - Causes severe ski burns and eye damage; H318 - Causes serious eye damage; H332 - Harmful if inhaled.

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New

Zealand 0800 764 766) or a doctor (at once).

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, 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.

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

Under fire conditions this product may emit toxic and/or irritating fumes and gases including sulphur oxides

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.

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.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel). Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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.f the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

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.

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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 complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Body protection

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.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state Liquid

Appearance Clear colourless liquid

Color Colourless

Odor Stinging, pungent odour of sulfur dioxide

Odor threshold No data available.

Melting point/freezing point

No data available.

Boiling point or initial boiling point and boiling range

No data available.

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 at 20C

Kinematic viscosity

No data available.

Solubility

No data available.

Partition coefficient n-octanol/water (log value)

No data available.

Vapor pressure

No data available.

Evaporation rate

No data available.

Pensity and/or relative density

1.03 c/ml @ 200

Density and/or relative density

1.03 g/mL @ 20C
Relative vapor density

No data available.

No data available.

Particle characteristics

No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

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Reactivity

Stable under normal conditions of storage and handling.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Violent reactions with reducing agents and acids

Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

Incompatible materials

Reducing agents, acids

Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Harmful if swallowed. Ingestion of this product will cause nausea, vomiting, abdominal pain, and chemical burns to the mouth, throat and stomach.

Skin corrosion/irritation

Causes severe skin burns. Corrosive to skin. The symptoms may include redness, itching and swelling, irritation, severe pain and chemical burns with resultant skin/tissue destruction.

Serious eye damage/irritation

Causes serious eye damage. Eye contact will cause stinging, blurring, tearing, evere pain and chemical burns, resulting in possible blindness.

Respiratory or skin sensitization

Not expected to be a respiratory or skin sensitiser.

Germ cell mutagenicity

Not considered to be a mutagenic hazard.

Carcinogenicity

Not considered to be a carcinogenic hazard.

Reproductive toxicity

Not considered to be toxic to reproduction.

Specific target organ toxicity (STOT) - single exposure

Not expected to cause toxicity to a specific target organ.

Specific target organ toxicity (STOT) - repeated exposure

Not expected to cause toxicity to a specific target organ.

Aspiration hazard

Not expected to be an aspiration hazard.

SECTION 12: Ecological information

Toxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

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.

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.

Other disposal recommendations

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

SECTION 14: Transport information

ADG (Road and Rail)

UN Number: 1833

Class: 8

Packing Group: II

Proper Shipping Name: SULPHUROUS ACID

IMDG

UN Number: 1833

Class: 8

Packing Group: II EMS Number: F-A,S-B

Proper Shipping Name: SULPHUROUS ACID

IATA

UN Number: 1833

Class: 8

Packing Group: II

Proper Shipping Name: SULPHUROUS ACID

SECTION 15: Regulatory information

SECTION 16: Other information

Further information/disclaimer

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