

## Safety Data Sheet SODIUM SULFATE

SDS no. 0TYWUZYP • Version 1.0 • Date of issue: 2024-07-09

### SECTION 1: Identification

#### GHS Product identifier

Product name SODIUM SULFATE

#### Other means of identification

Name Product Code

SODIUM SULFATE Decahydrate LR SL066

Glauber's salt

SODIUM SULFATE Anhydrous Granular AR SA192

SODIUM SULFATE Anhydrous Powder AR SA007

SODIUM SULFATE Anhydrous Powder BP SP007

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

Paper pulp, plate and window glass, soaps and detergents, sodium salts, ceramic glazes, processing textile fibers, dyes, tanning, pharmaceuticals, freezing mix, food additive, laboratory reagent, solar heat storage, air-conditioning and pharmaceutical production.

#### 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.au](http://www.chemsupply.com.au)

#### Emergency phone number

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

### SECTION 2: Hazard identification

#### Classification of the substance or mixture

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

Not a hazardous substance or mixture.

#### GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

**Other hazards which do not result in classification**

Not a hazardous substance or mixture.

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**SECTION 3: Composition/information on ingredients**

**Mixtures**

Molecular weight: 142.0432213

Anhydrous or Decahydrate

**Components**

Component	CAS no.	Concentration
<b>Sodium sulfate (EC no.: 231-820-9)</b>	<b>7757-82-6</b>	<b>98 - 100 % (weight)</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.		
<b>Sodium sulfate Decahydrate</b>	<b>7727-73-3</b>	<b>98 - 100 % (weight)</b>
CLASSIFICATIONS: No data available. HAZARDS: No data available.		

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**SECTION 4: First-aid measures**

**Description of necessary first-aid measures**

General advice	First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
In case of skin contact	Wash affected areas with copious quantities of water. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.
In case of eye contact	Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.
If swallowed	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

**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, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

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**SECTION 5: Fire-fighting measures**

**Suitable extinguishing media**

Small fire: Use dry chemical, CO<sub>2</sub>, water spray or foam.

Large fire: Use water spray, fog or foam.

If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

Contain escaping vapours with water. Prevent runoff entering surface water or groundwater.

**Specific hazards arising from the chemical**

Hazards from Combustion Products: May liberate toxic fumes in fire (sulfur oxides).

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Not considered a fire hazard. Violent explosions occur when potassium sulfate and sodium sulfate are melted with aluminium. Ambient fire may liberate hazardous vapours.

### Special protective actions for fire-fighters

Use suitable protective equipment for surrounding fire.

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud.

Wear protective clothing specified for normal operations (see Section 8)

### Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Keep in suitable, closed containers for disposal.

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## SECTION 7: Handling and storage

### Precautions for safe handling

Avoid generation or accumulation of dusts. Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment. Wash hands and face thoroughly after working with material.

### Conditions for safe storage, including any incompatibilities

Dry product can be stored in mild steel. Hot concentrated aqueous solutions are corrosive to mild steel. Wet product or hot solutions are aggressive towards ordinary concrete.

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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: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

#### Body protection

Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

#### Respiratory protection

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or

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planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

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### SECTION 9: Physical and chemical properties

#### Basic physical and chemical properties

Physical state	Solid
Appearance	Colourless to White crystals, granules or powder.
Color	No data available.
Odor	Odourless.
Odor threshold	No data available.
Melting point/freezing point	888 °C (anhydrous); 32.4 °C (decahydrate)
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	5.2 - 8.0 (50 g/L, H <sub>2</sub> O, 20 °C) Solutions neutral to litmus.
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Soluble. Solubility in Organic Solvents: Soluble in glycerol, hydrogen iodide. Insoluble in alcohol.
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: 2.67 (anhydrous); 1.46 (decahydrate)
Relative vapor density	No data available.
Particle characteristics	No data available.

#### Supplemental information regarding physical hazard classes

No data available.

#### Further safety characteristics (supplemental)

Other Information: Taste: Saline taste

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### SECTION 10: Stability and reactivity

#### Reactivity

Stable under normal conditions of storage and handling.

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

Possibility of hazardous reactions: Violent reaction with aluminium.

Hazardous Polymerization: Will not occur.

#### Conditions to avoid

Exposure to moisture.

Avoid storing in direct sunlight and avoid extremes of temperature.

**Incompatible materials**

Strong mineral acids and bases. In combination with sodium sulfate, aluminium and magnesium.

**Hazardous decomposition products**

Oxides of sulfur and sodium.

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**SECTION 11: Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

Ingestion: Slowly absorbed from the alimentary tract. May cause gastrointestinal irritation. Because of osmotic activity, this substance will draw water into the lumen of the bowel and may cause purging, fluid loss, blood in stools, fall of blood pressure and high sodium levels in the blood.

Inhalation: May cause irritation to respiratory tract and mucous membranes.

**Skin corrosion/irritation**

May cause skin irritation.

**Serious eye damage/irritation**

Dust may cause mechanical irritation to the eyes.

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

No data available.

**Reproductive toxicity**

No data available.

**Summary of evaluation of the CMR properties**

No data available.

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

No data available.

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

No data available.

**Aspiration hazard**

No data available.

**Additional information**

Chronic Effects: Prolonged or repeated skin contact may result in dermatitis. After swallowing of large amounts may cause cardiovascular disorders and symptoms in the gastrointestinal tract, possibly including nausea and vomiting.

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**SECTION 12: Ecological information**

**Toxicity**

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Acute Toxicity - Fish: LC50 (*Gambusia affinis*): 120 mg/l/96 h.  
LC50 (*L. macrochirus*): ~ 3040-4380 MG/L/96 H.  
LC50 (*P. promelas*): 13500-14500 mg/l/96 h.

The following applies to sulfate in general:  
fish: toxic as from 7 g/l.

Acute Toxicity - Daphnia: EC50 (*Daphnia magna*): 2564 mg/l/48 h.

Acute Toxicity - Bacteria: The following applies to sulfate in general:  
bacteria: toxic as from 2.5 g/l.

### Bioaccumulative potential

When released into soil, this material is expected to leach into groundwater. This material is not expected to significantly bioaccumulate.

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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.

#### Sewage disposal

When released into soil, this material is expected to leach into groundwater. This material is not expected to significantly bioaccumulate.

#### 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)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

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## SECTION 15: Regulatory information

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

#### Australia SUSMP

Poison Schedule: NS

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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

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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.

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](http://hcis.safeworkaustralia.gov.au)

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)