

## Safety Data Sheet POTASSIUM BISULFATE

SDS no. 1NV384N7 • Version 1.0 • Date of issue: 2023-08-26

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### SECTION 1: Identification

#### GHS Product identifier

Product name POTASSIUM BISULFATE

#### Other means of identification

Potassium Hydrogen Sulphate PL038  
Potassium Acid Sulfate,  
Acid Potassium Sulfate,  
Sal Enixum

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

Conversion of wine lees and tartrates into potassium bitartrate, flux, manufacture of mixed fertilisers, methyl acetate and ethyl acetate and 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.au](http://www.chemsupply.com.au)

#### Emergency phone number

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

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### 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.

Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following:

Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity.

#### 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
- Specific target organ toxicity following single exposure, Cat. 3

**GHS label elements, including precautionary statements**

**Pictograms**



**Signal word**

**Danger**

**Hazard statement(s)**

H314

Causes severe skin burns and eye damage

H335

May cause respiratory irritation

**Precautionary statement(s)**

P260

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

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+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.

P403+P233

Store in a well-ventilated place. Keep container tightly closed.

P405

Store locked up.

P501

Dispose of contents/container to an approved waste disposal facility

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

**Mixtures**

Molecular weight: 136.17

**Components**

Component	CAS no.	Concentration
Potassium hydrogen sulfate (EC no.: 231-594-1; Index no.: 016-056-00-4)	7646-93-7	98 - 100 % (weight)
CLASSIFICATIONS: Specific target organ toxicity following single exposure, Cat. 3; Skin corrosion/irritation, Cat. 1B. HAZARDS: H314 - Causes severe skin burns and eye damage; H335 - May cause respiratory irritation.		

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**SECTION 4: First-aid measures**

**Description of necessary first-aid measures**

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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. Immediately medical attention is required.
In case of skin contact	Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek immediate medical advice /attention depending on the severity.
In case of eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice if effects 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> or water spray. If safe to do so, move undamaged containers from the fire area.

Large fire: Use dry chemical, CO<sub>2</sub>, foam or water spray - Do NOT use water jets.

Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers.

**Specific hazards arising from the chemical**

Material does not burn. Fire or heat will produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. S

**Special protective actions for fire-fighters**

Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.

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## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

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.

**Methods and materials for containment and cleaning up**

Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 50m. Do NOT touch or walk through this product. Do NOT touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas.

Cover with DRY earth, sand or other non-combustible material followed by plastic sheet to minimize spreading or contact with rain.

DO NOT GET WATER INSIDE CONTAINERS.

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## SECTION 7: Handling and storage

**Precautions for safe handling**

Store away from oxidizing agents. Store in well ventilated area. Store in a cool, dry place. Keep containers closed at all times. Keep container dry

**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.

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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**

Hand protection should comply 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 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, deliquescent crystals or granules.
Color	No data available.
Odor	No data available.
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	195 °C
Oxidizing properties	No data available.
pH	~ 1 (50 g/l, H <sub>2</sub> O, 20 °C)

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Kinematic viscosity  
Solubility  
Partition coefficient n-octanol/water (log value)  
Vapor pressure  
Evaporation rate  
Density and/or relative density  
Relative vapor density  
Particle characteristics

No data available.  
Solubility in Water: 490 g/L (20 °C) (exothermic process)  
No data available.  
No data available.  
No data available.  
Specific Gravity: 2.32  
No data available.  
No data available.

#### Supplemental information regarding physical hazard classes

No data available.

#### Further safety characteristics (supplemental)

Soluble in water yielding a solution with acid reaction. Decomposes in alcohol.

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## SECTION 10: Stability and reactivity

#### Reactivity

Stable under normal conditions of storage and handling.

#### Chemical stability

Stable. Hygroscopic.

#### Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

#### Conditions to avoid

Exposure to moisture.

Avoid storing in direct sunlight and avoid extremes of temperature.

#### Incompatible materials

Strong bases, strong oxidizing agents, alcohol, moist air or water.

#### Hazardous decomposition products

Oxides of sulfur, oxides of potassium.

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## SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

Oral LD50 (rat): 2340 mg/kg

Ingestion: Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach. Can cause sore throat, vomiting, diarrhea.

Inhalation: Corrosive. Inhalation produces damaging effects on the mucous membranes and upper respiratory tract. Symptoms may include soreness in nasal passages, irritation of the throat, possible coughing and sneezing, labored breathing.

##### Skin corrosion/irritation

Corrosive. Symptoms of redness, pain, and severe burn can occur.

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### Serious eye damage/irritation

Corrosive. Contact can cause blurred vision, redness, pain and severe tissue burns.

### 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

Specific Target Organ Toxicity Category 3 single exposure (respiratory tract irritation)

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

No data available.

### Aspiration hazard

No data available.

### Additional information

No data available.

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## SECTION 12: Ecological information

### Toxicity

Acute Toxicity - Fish: LC50 Leucisus idus (Golden orfe) - 3500 mg/l

Acute Toxicity - Daphnia: Test type: EC50 Daphnia, Sp. Daphnia magna, Value: 1310 mg/l.

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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.

### 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: 2509

Class: 8

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Packing Group: II  
Proper Shipping Name: POTASSIUM HYDROGEN SULFATE

**Hazchem emergency action code (EAC)**  
2X

**IMDG**  
UN Number: 2509  
Class: 8  
Packing Group: II  
EMS Number:  
Proper Shipping Name: POTASSIUM HYDROGEN SULFATE

**IATA**  
UN Number: 2509  
Class: 8  
Packing Group: II  
Proper Shipping Name: POTASSIUM HYDROGEN SULFATE

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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 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

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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](https://hcis.safeworkaustralia.gov.au)  
IATA, Dangerous Goods Regulations (DGR)

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IMO, International Maritime Dangerous Goods Code (IMDG)