

SDS no. LQMTCR9S • Version 1.0 • Date of issue: 2023-09-03

SECTION 1: Identification

GHS Product identifier

Product name

POTASSIUM OXALATE Monohydrate

Recommended use of the chemical and restrictions on use

Reagent in analytical chemistry, source of oxalic acid, bleaching and cleaning, removing stains from textiles, photography and laboratory reagent.

Supplier's details

Name Address	ChemSupply Australia Pty Ltd 38-50 Bedford Street 5013 Gillman South Australia Australia
Telephone email	08 8440 2000 www.chemsupply.com.au
Emergency phone number	

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

SECTION 2: Hazard identification

General hazard statement

Not 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

- Acute toxicity, dermal, Cat. 4

- Acute toxicity, oral, Cat. 4

GHS label elements, including precautionary statements

Pictograms



Signal word	Warning
Hazard statement(s)	
H302	Harmful if swallowed
H312	Harmful in contact with skin
Precautionary statement(s)	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physcian if you feel unwell,
P302+P352	IF ON SKIN: Wash with plenty of water/soap
P312	Call a POISON CENTER/doctor/physcian if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 184.24

Components

Component	CAS no.	Concentration
Potassium oxalate monohydrate	6487-48-5	100 - 100 % (weight)
CLASSIFICATIONS: Acute toxicity, dermal, Cat. 4; Acute toxicity, oral, Cat. 4. HAZARDS: H302 - Harmful if swallowed; H312 - Harmful in contact with skin.		

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. Move out of dangerous area.
	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 obtain medical aid if cough or other symptoms appear.
In case of skin contact	Remove contaminated clothing and wash before re-use. Wash affected areas with copious quantities of water immediately. Seek medical advice.
In case of eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
If swallowed	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice.

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

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media.

Specific hazards arising from the chemical

Emits toxic fumes under fire conditions.

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

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. For personal protection see section 8.

Methods and materials for containment and cleaning up

Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid inhalation of dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Minimize dust generation and accumulation. Work in fumehood and use only with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Wear suitable protective clothing. Contaminated clothing should be removed and washed before re-use. Wash hands and face thoroughly after working with material.

Conditions for safe storage, including any incompatibilities

Ensure containers are clearly labelled. Keep containers closed at all times. Store away from oxidizing agents. Store in a cool, dry place.

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. If 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.

Skin protection

Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Body protection

Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Clean clothing or protective clothing should be worn, preferably with and 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.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state Appearance Color Odor Odor threshold Melting point/freezing point Boiling point or initial boiling point and boiling range Flammability Lower and upper explosion limit/flammability limit Flash point Explosive properties Auto-ignition temperature Decomposition temperature Oxidizing properties pН Kinematic viscosity Solubility Partition coefficient n-octanol/water (log value) Vapor pressure Evaporation rate Density and/or relative density Relative vapor density Particle characteristics

Supplemental information regarding physical hazard classes No data available.

Further safety characteristics (supplemental) No data available.

SECTION 10: Stability and reactivity

Solid White. No data available. Odourless. No data available. 7.0 - 8.5 (50g/L, H20, 20 °C) No data available. Solubility in Water: 360 g/L at 20 °C No data available. No data available. No data available. Specific Gravity: 2.13 (approx.) No data available. No data available.

Reactivity

Stable under normal conditions of storage and handling.

Chemical stability Stable.

Possibility of hazardous reactions

None under normal use conditions.

Hazardous Polymerization: Will not occur.

Conditions to avoid

Moisture and heating.

Incompatible materials

Strong acids, strong oxidizers, heavy metals, ammonia, halogens and cyanides.

Hazardous decomposition products

Oxides of carbon and metals.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Harmful if swallowed. Soluble oxaltes cause corrosive action on the mucosa and severe gastrointestitis (infection or irritation of the digestive tract, particularly the stomach and intestine) can occur with pain and vomiting. Symptoms include of nausea, vomiting, ulceration of the mouth, headache, diarrhea, stiffiness and excess salivation. May affect CNS (weakness, muscle tremors, depression), cardiovascular system (rapid weak pulse, hypotension, dysrhythmia), respiration system, kidneys/urinary system (kidney damage) and low blood calcium levels.

Harmful by inhalation. Corrosive to mucous membranes. Causes iritation to upper respiratory tract. Exposure may cause coughing, spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, pulmonary edema, chest pains, burning senstation, wheezing, and difficultly breathing. May cause nervousness, cramps, central nervous system depression.

Skin corrosion/irritation

Harmful in contact with the skin. May cause redness, pain and severe burns. Oxalate ions are an irritant to the skin and may cause inflammation, skin lesions/ulcerations and burns. Prolonged or repeated exposure can lead to dermititis.

Serious eye damage/irritation

Causes eye irritation. Symptoms include of blurred vision, redness, pain and severe tissue burns. Prolonged contact may cause eye damage.

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: Circulatory failure or nervous system irregularities may follow prolonged calcium metabolism disturbances due to oxalation.

Potassium oxalate monohydrate: Epidemiology: A study of railroad car cleaners in Norway who were heavily exposed to oxalic acid solutions and vapors revealed a 53% prevalence of urolithiasis (the formation of urinary stones), compared to a rate of 12% among unexposed workers from the same company.

Teratogenicity: No information found

Reproductive Effects: Oxalic acid caused kidney damage in fetal sheep and rats and disturbed the estrus cycle in rats. Increased sperm abnormalities were seen in the second generation of mice administered 0.2% oxalic acid in the drinking water.

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.

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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)

Not dangerous goods

IMDG Not dangerous goods

IATA Not dangerous goods

SECTION 15: Regulatory information

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

Australia SUSMP Poison Schedule: S6

SECTION 16: Other information

Further information/disclaimer

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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 fot 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 Airbourne Contaminants, December 2019 Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)