

Safety Data Sheet **ANTIMONY POTASSIUM TARTRATE**

SDS no. ATJD3QKW • Version 1.0 • Date of issue: 2024-12-23

SECTION 1: Identification

GHS Product identifier

Product name ANTIMONY POTASSIUM TARTRATE

Other means of identification

Product Product Code

ANTIMONY POTASSIUM TARTRATE AP AA000
Potassium antimony tartrate, Antimony potassium (+)-tartrate,
Potassium antimony (III) oxide tartrate

Recommended use of the chemical and restrictions on use

Textile and leather mordant, medicine, insecticide and laboratory reagent.

Additional information: Efflorescing on exposure to air.

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

Emergency phone number

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

SECTION 2: Hazard identification

General hazard statement

Dangerous Goods of Class 6 (Toxic and Infectious Substances) are incompatible in a placard load with any of the following: Class 1, Class 3, if the Class 3 dangerous goods are nitromethane, Class 8, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids; 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

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- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, oral, Cat. 3
- Hazardous to the aquatic environment, long-term (chronic), Cat. 2

GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

- H301 Toxic if swallowed
- H332 Harmful if inhaled
- H411 Toxic to aquatic life with long lasting effects

Precautionary statement(s)

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor/physician if you feel unwell.
- P391 Collect spillage.
- P405 Store locked up.
- P501 Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 667.87

Components

Component	CAS no.	Concentration
ANTIMONY POTASSIUM TARTRATE	28300-74-5	<= 100 % (weight)
CLASSIFICATIONS: Acute toxicity, inhalation, Cat. 4; Acute toxicity, oral, Cat. 3; Hazardous to the aquatic environment, long-term (chronic), Cat. 2. HAZARDS: H301 - Toxic if swallowed; H332 - Harmful if inhaled; H411 - Toxic to aquatic life with long lasting effects.		

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

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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 immediately. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.

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 if symptoms persist.

Most important symptoms/effects, acute and delayed

Potassium antimony tartrate is the most potent trivalent antimony compound. Trivalent antimony compounds are more toxic than the pentavalent because they are excreted slowly. The most serious adverse effects are on the heart and liver along with coughing, chest and abdominal pain, vomiting, fainting and collapse. Less immediate adverse effects include gastrointestinal disturbances, headache, dizziness, weakness and damage to the kidneys.

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.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Small fire: Use dry chemical, CO₂ or water spray. If safe to do so, move undamaged containers from fire area.

Large fire: Use water spray, fog or foam - Do not use water jets. Cool containers with flooding quantities of water until well after fire is out. Avoid getting water inside containers.

Specific hazards arising from the chemical

Hazards from Combustion Products: Toxic fumes of antimony, antimony oxides, carbon oxides, potassium oxides.

Material does not burn. Fire or heat will produce irritating, poisonous and/or corrosive gases. Runoff may pollute waterways.

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.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Evacuate the area of all non-essential personnel. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Wear protective clothing specified for normal operations (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.

Prevent contamination of soil and water.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid generation or accumulation of dusts. Avoid prolonged or repeated contact with skin, eyes and clothing. 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.

Contaminated clothing should be removed and washed before reuse.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place. Store in well ventilated area. Keep containers securely sealed and protected against physical damage.

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

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

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

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

Solid

Appearance

Transparent crystals or white powder.

Color

No data available.

Odor

Odourless.

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Odor threshold	No data available.
Melting point/freezing point	Loses water @ ~100 °C
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	~ 4.0 (50 g/l, H ₂ O, 20 °C)
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Soluble (55 g/L @ 20 °C). Solubility in Organic Solvents: Soluble in glycerol. Insoluble in alcohol.
Partition coefficient n-octanol/water (log value)	log P(o/w): -8.32
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: 2.6
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: Sweetish, metallic taste.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions of storage and handling.

Chemical stability

Stable under ordinary conditions of use and storage.

Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

Conditions to avoid

Incompatibles

Incompatible materials

Lead, lead and silver salts, mercury bichloride, alkali metals and their carbonates, carbonates, lime water, albumin, soap, perchloric acid, tannic acid, mineral acids, gallic acids, strong bases, strong oxidizing agents and reducing agents.

Hazardous decomposition products

Toxic fumes of antimony, antimony oxides, carbon oxides, potassium oxides.

SECTION 11: Toxicological information

Information on toxicological effects

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Acute toxicity

Acute Toxicity - Oral: LD50 (rat): 115 mg/kg - anhydrous.

LDLo (human): 2 mg/kg.

Ingestion: Toxic if swallowed. After a latency period may cause pain in the mouth pharynx, oesophagus and gastrointestinal tract. May cause salivation, cough, metallic taste, nausea, vomiting, bloody diarrhea, dizziness, irritability and muscular pains. May cause heart to beat irregularly or stop. Symptoms of an acute intoxication may include vomiting, bloody diarrhoea, cyanosis, headache, excitation, paralysis symptoms, coma, and death.

Inhalation: Harmful by inhalation. Irritating to the respiratory tract. May cause sore throat, coughing and shortness of breath. Effects of inhalation may be delayed. Symptoms similar to ingestion.

Skin corrosion/irritation

May cause irritation, redness and pain. Effects of contact may be delayed.

Serious eye damage/irritation

May cause irritation, redness and pain.

Respiratory or skin sensitization

Not classified based on available information.

Germ cell mutagenicity

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 classified based on available information.

Additional information

Chronic Effects: Repeated or prolonged skin contact may cause chronic dermatitis. Repeated or prolonged inhalation of dusts may cause blood, liver and CNS effects, heart muscle damage, laryngitis, headache, weight loss and anemia.

SECTION 12: Ecological information

Toxicity

Biological Properties: Behaviour in environmental compartments: Distribution: log P (o/w) = -8.32

Acute Toxicity - Fish: LC50 (Oncorhynchus mykiss-rainbow trout): 37 mg/l/96h.

Acute Toxicity - Daphnia: EC50(magna): 6 mg/l/48h.

Persistence and degradability

Degradability poor.

Bioaccumulative potential

No bioaccumulation is to be expected: $\log P(o/w) < 1$.

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

No bioaccumulation is to be expected: $\log P(o/w) < 1$.

Other disposal recommendations

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

SECTION 14: Transport information

ADG (Road and Rail)

UN Number: 1551

Class: 6.1

Packing Group: III

Proper Shipping Name: ANTIMONY POTASSIUM TARTRATE

Hazchem emergency action code (EAC)

2Z

IMDG

UN Number: 1551

Class: 6.1

Packing Group: III

EMS Number:

Proper Shipping Name: ANTIMONY POTASSIUM TARTRATE

IATA

UN Number: 1551

Class: 6.1

Packing Group: III

Proper Shipping Name: ANTIMONY POTASSIUM TARTRATE

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 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

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)