

Infosafe No™ 1CH8N Issue Date : August 2021 RE-ISSUED by CHEMSUPP

Product Name **POTASSIUM SORBATE**

Classified as hazardous

1. Identification

GHS Product Identifier POTASSIUM SORBATE

Company Name CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)

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Recommended use of the chemical and restrictions on use Developed for preparation of aqueous stock solution for dip, spray and metering applications, food additive, bacteriostat, chemical preservative, mold, fungi and yeast inhibitor and antioxidant in foods, such as cheese, wine, yogurt, baked goods, meats, sausage casings and wines and laboratory reagent.

Other Names	<u>Name</u>	<u>Product Code</u>
	Sorbic acid, potassium salt	
	POTASSIUM SORBATE FCC	PP102
	POTASSIUM SORBATE LR	PL102
	Potassium 2,4-hexadienoate	

Other Information 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.

2. Hazard Identification

GHS classification of the substance/mixture Eye Damage/Irritation: Category 2

Signal Word (s) WARNING

Hazard Statement (s) H319 Causes serious eye irritation.

Pictogram (s) Exclamation mark



Precautionary statement – Prevention P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

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Precautionary statement – Disposal P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Potassium Sorbate	24634-61-5	100 %

4. First-aid measures

Inhalation	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.
Ingestion	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.
Skin	Wash affected areas with copious quantities of water. If persistent irritation occurs, obtain medical attention.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If persistent irritation occurs, obtain medical attention.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products	Irritating and toxic fumes and gases, potassium oxides, carbon monoxide and carbon dioxide.
Specific Methods	May burn but do not ignite readily. Small fire: Use dry chemical, CO ₂ , 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.
Decomposition Temp.	>270 °C
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	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.

7. Handling and storage

Precautions for Safe Handling	Avoid ingestion and inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Minimize dust generation and accumulation. If ingested, seek medical advice immediately and show the container or the label. Wear suitable protective clothing. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Keep away from heat and all sources of ignition. Protect against physical damage and light. Separate from paper, cloth and cellulosic materials. Ground all equipment containing material. Empty containers pose a fire risk, evaporate the residue under a fume hood. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
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Conditions for safe storage, including any incompatibilities	Store in a tightly closed container, in a cool, dry, ventilated area away from incompatible substances. Protect against physical damage, light and moisture. Store away from extreme heat and oxidizing agents. Ground all equipment containing material. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
Storage Temperatures	Store at room temperature (15 to 25 °C recommended).
Unsuitable Materials	Aluminium, tin, zinc, paper, cloth, absorbent materials, cellulosic materials.

8. Exposure controls/personal protection

Other Exposure Information	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m ³ . All atmospheric contamination should be kept to as low a level as is workable. These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.
Appropriate engineering controls	Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
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.
Eye 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.
Hand Protection	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
Body Protection	Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Solid
Appearance	White, faintly yellow or very light beige powder, crystals, granules or beads.
Odour	Characteristic odour.
Decomposition Temperature	>270 °C

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Melting Point	~270 °C (decomposes)
Solubility in Water	Easily soluble in cold water (58.5 g/100 ml @ 25 °C).
Solubility in Organic Solvents	Solubility in alcohol: 0.02 g/100ml @ 20 °C.
Specific Gravity	1.363
pH	~8.3 (50g/l, 20 °C)
Volatile Component	0 %vol @ 21 °C.
Partition Coefficient: n-octanol/water	Log P(o/w): 1.33
Flammability	Combustible.
Auto-Ignition Temperature	>150 °C
Molecular Weight	150.22

10. Stability and reactivity

Chemical Stability	Stable under ordinary conditions of use and storage. Decomposes on exposure to light or heat.
Conditions to Avoid	Light, heat, incompatible materials, strong oxidants.
Incompatible Materials	Oxidizing agents, aluminium, tin, zinc, paper, cloth, cellulosic materials + liquid.
Hazardous Decomposition Products	Irritating and toxic fumes and gases, potassium oxides, carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Cellulosic materials, such as paper, cloth and other absorbent materials soaked with sorbates may ignite spontaneously.
Hazardous Polymerization	Has not been reported.

11. Toxicological Information

Ingestion	No adverse effects expected after contact with small quantities.
Inhalation	Irritation symptoms in the respiratory tract.
Skin	Causes skin irritation. May cause dermatitis.
Eye	Causes eye irritation. May cause chemical conjunctivitis.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not listed in the IARC Monographs. Not classified based on available information.
Reproductive Toxicity	Not classified based on available information.
STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.
Chronic Effects	Prolonged or repeated skin contact may cause dermatitis.

12. Ecological information

Ecological Information	No ecological problems are to be expected when the product is handled and used with due care and attention.
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Ecotoxicity	Toxic for aquatic organisms. Fungicidal effect. Algicidal effect.
Persistence and degradability	Readily biodegradable > 95%.
Environmental Fate	Distribution: Log P(o/w): 1.33
Bioaccumulative Potential	No appreciable bioaccumulation is to be expected (log P(o/w) 1-3).
Environmental Protection	Do not allow to enter waters, waste water, or soil!
Acute Toxicity - Fish	LC50 (Brachydanio rerio): 1250 mg/l /96 h.
Acute Toxicity - Daphnia	EC50 (Daphnia): 750 mg/l /48 h.
Acute Toxicity - Bacteria	EC0 (Ps. putida): > 1000 mg/l.

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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14. Transport information

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Environmental Hazards	Toxic to aquatic organisms. Fungicidal effect. Algicidal effect.

15. Regulatory information

Regulatory Information	All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS), or exempted. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled

16. Other Information

Literature References	'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'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.
Contact Person/Point	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

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Empirical Formula & Structural Formula
Empirical Formula: C₆H₇KO₂.
Structural Formula: H₃CCH:CHCH:CHCOOK.

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