

Safety Data Sheet

Sodium Glycerophosphate BPC 49 | Cat. No. ASC-8042 | GHS 7th Edition / WHS Regulations 2023 (Australia)

Section 1 — Identification

Product Name	Sodium Glycerophosphate (BPC 49 Grade)
Catalogue No.	ASC-8042
CAS Number	1334-74-3
Chemical Formula	$C_3H_7Na_2O_6P \cdot xH_2O$
Recommended Use	Pharmaceutical, food, supplement, and research use — organic phosphate source
Restrictions on Use	Use in accordance with applicable pharmaceutical/food regulations for the intended market
Supplier	AuSaMicS Pty Ltd ABN 56 676 640 467
Address	36/25 Trafalgar Road, Epping, VIC 3076, Australia
Telephone	+61 412 520 598
Email	support@ausamics.com
Emergency Telephone	Poisons Information Centre: 13 11 26 (24 hours, Australia-wide)

Section 2 — Hazard(s) Identification

Not classified as a hazardous substance or mixture under the GHS 7th Edition or Australian WHS (Hazardous Chemicals) Regulations 2023. No signal word or pictogram required. Hazards Not Otherwise Classified (HNOC): may cause mild skin irritation; may cause mild eye irritation, consistent with any fine crystalline powder.

GHS Classification	Not classified
Signal Word	None
Hazard Statements	None assigned under GHS
Hazards Not Otherwise Classified (HNOC)	May cause mild skin irritation. May cause mild eye irritation.
Precautionary Statements	P261 — Avoid breathing dust. P262 — Do not get in eyes, on skin, or on clothing. P281 — Use personal protective equipment as required. P302+P352 — IF ON SKIN: wash with plenty of soap and water. P304+P340 — IF INHALED: remove to fresh air and keep at rest in a position comfortable for breathing.

Section 3 — Composition / Information on Ingredients

Component	% w/w	CAS No.	Classification
Sodium glycerophosphate (racemic α/β mixture)	98.0 – 102.0% (anhydrous basis)	1334-74-3	Not classified

Note: this substance is also registered under related CAS number 55073-41-1, referring to the same racemic mixture. It is distinct from single-isomer β -glycerophosphate (CAS 154804-51-0), which is a separate product.

Section 4 — First-Aid Measures

Eye Contact	Rinse cautiously with water. If irritation occurs, seek medical attention.
Skin Contact	Wash with plenty of soap and water.
Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing.
Ingestion	Rinse mouth with water. Seek medical advice if a large quantity is swallowed or symptoms occur.
Advice to Physician	Treat symptomatically.

Section 5 — Fire-Fighting Measures

Suitable Extinguishing Media	Water spray, carbon dioxide, dry chemical powder, foam
Specific Hazards	No unusual fire or explosion hazards known under normal handling. On strong heating, the substance decomposes and may evolve flammable vapour (per identification test in Section 9).

Section 6 — Accidental Release Measures

Personal Precautions	Avoid raising dust. Use PPE as per Section 8.
Environmental Precautions	Prevent entry into drains, watercourses, or soil
Containment & Clean-Up	Sweep or vacuum into a suitable, labelled container for disposal.

Section 7 — Handling and Storage

Handling Precautions	Avoid contact with eyes and prolonged skin contact. Avoid generating and breathing dust.
Storage Conditions	Store in a cool, dry place, tightly sealed, protected from moisture

Incompatibilities

None known under normal storage conditions

Section 8 — Exposure Controls / Personal Protection

Engineering Controls	Local exhaust ventilation or fume hood when weighing bulk powder
Eye/Face Protection	Safety glasses recommended for bulk powder handling
Hand Protection	Nitrile gloves
Body Protection	Laboratory coat
Respiratory Protection	Dust mask recommended for bulk powder handling

Section 9 — Physical and Chemical Properties

Appearance	White monoclinic plates, crystals, or crystalline powder
Odour	Odourless
Taste	Salty
Molecular Weight	216.04 g/mol (anhydrous basis)
Solubility in Water	Freely soluble (1 g in 4 mL)
Decomposition	Decomposes on strong heating, evolving flammable vapour

Section 10 — Stability and Reactivity

Chemical Stability	Stable under recommended storage conditions
Possibility of Hazardous Reactions	None known under normal conditions
Conditions to Avoid	Strong heating, moisture ingress
Incompatible Materials	None known

Section 11 — Toxicological Information

Acute Toxicity	Not classified; the substance is approved for pharmaceutical (intravenous) and food use, indicating a low toxicity profile at intended use levels
Skin Corrosion/Irritation	Not classified; may cause mild irritation (HNO3)

Serious Eye Damage/Irritation	Not classified; may cause mild irritation (HNOC)
Respiratory/Skin Sensitisation	Not classified
Carcinogenicity / Mutagenicity / Reproductive Toxicity	Not classified
Aspiration Hazard	Not classified

Section 12 — Ecological Information

Ecotoxicity	Not expected to be harmful to aquatic organisms at anticipated environmental concentrations
Persistence and Degradability	Readily biodegradable organic phosphate salt
Bioaccumulative Potential	Not expected to bioaccumulate

Section 13 — Disposal Considerations

Disposal Method	Dispose of as general laboratory/chemical waste via a licensed waste contractor in accordance with EPA (Victoria) requirements. Recycle wherever possible.
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Section 14 — Transport Information

UN Number	Not applicable — not classified as dangerous goods
Transport Hazard Class	Not applicable — ADG, IMDG, IATA: Not Dangerous Goods

Section 15 — Regulatory Information

Australian Regulations	Unscheduled (AU legal status). Not classified as a Scheduled Poison under the SUSMP. Approved for medical use in Australia (as sodium glycerophosphate, IV formulation) since November 2019.
International Inventories	EINECS 215-613-0; listed on relevant chemical inventories where applicable

Section 16 — Other Information



SDS
ASC-8042
www.ausamics.com.au

Preparation Date	August 2025
Revision	Rev. 1.0
Key Data Sources	BPC 49 monograph; Ph. Eur. monograph for hydrated sodium glycerophosphate; supplier SDS data for CAS 1334-74-3

Disclaimer

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