

Safety Data Sheet

Zinc Sulfate Monohydrate (USP Grade) | Cat. No. ASC-8021 | GHS 7th Edition / WHS Regulations 2023 (Australia)

Section 1 — Identification

Product Name	Zinc Sulfate Monohydrate (USP Grade)
Catalogue No.	ASC-8021
CAS Number	7446-19-7
Chemical Formula	$\text{ZnSO}_4 \cdot \text{H}_2\text{O}$
Recommended Use	USP grade zinc source for nutraceutical, agricultural, animal feed, and laboratory use
Restrictions on Use	Use in accordance with applicable 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

Classified as a hazardous chemical under the Australian WHS (Hazardous Chemicals) Regulations 2023 and GHS 7th Edition. This substance is harmful if swallowed, causes serious eye damage, and is very toxic to aquatic life with long-lasting effects.



GHS Classification	Acute Toxicity (Oral) Category 4; Eye Damage Category 1; Aquatic Chronic Category 1
Signal Word	Danger
Hazard Statements	H302 — Harmful if swallowed. H318 — Causes serious eye damage. H410 — Very toxic to aquatic life with long lasting effects.
Precautionary Statements — Prevention	P264 — Wash hands thoroughly after handling. P270 — Do not eat, drink or smoke when using this product. P273 — Avoid release to the environment. P280 — Wear protective gloves/eye protection/face protection.

Precautionary Statements — Response

P301+P312 — IF SWALLOWED: call a POISON CENTER/doctor if you feel unwell. 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. P330 — Rinse mouth. P391 — Collect spillage.

Precautionary Statements — Storage/Disposal

P501 — Dispose of contents/container in accordance with local regulations.

Section 3 — Composition / Information on Ingredients

Component	% w/w	CAS No.	Classification
Zinc sulfate monohydrate	≥ 98%	7446-19-7	Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 1 (H302, H318, H410)

Section 4 — First-Aid Measures

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention — do not delay.

Skin Contact

Wash with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.

Inhalation

Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if symptoms occur.

Ingestion

Rinse mouth. Do NOT induce vomiting. Call a Poison Centre or doctor immediately. May cause stomach irritation, abdominal cramps, and nausea.

Section 5 — Fire-Fighting Measures

Suitable Extinguishing Media

Water spray, carbon dioxide, dry chemical powder, foam

Specific Hazards

Not flammable or combustible. Fire-fighting water runoff should be contained — spillage and fire water can cause pollution of watercourses given aquatic toxicity.

Section 6 — Accidental Release Measures

Personal Precautions	Use PPE as per Section 8. Avoid contact with skin and eyes. Avoid generating dust.
Environmental Precautions	Prevent entry into drains, watercourses, or soil — very toxic to aquatic life with long-lasting effects. Do not allow to enter the environment.
Containment & Clean-Up	Collect spillage in a suitable, labelled container for disposal. Avoid dry sweeping that generates dust.

Section 7 — Handling and Storage

Handling Precautions	Avoid contact with eyes and skin. Avoid generating and breathing dust. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product.
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	Chemical safety goggles or face shield — mandatory given serious eye damage classification
Hand Protection	Chemical-resistant gloves (nitrile)
Body Protection	Laboratory coat
Respiratory Protection	P1/P2 particulate respirator when weighing or handling bulk powder

Section 9 — Physical and Chemical Properties

Appearance	White crystalline powder or granules
Molecular Weight	179.47 g/mol
Solubility in Water	Freely soluble
pH (5% aqueous solution)	4.4–5.6

Section 10 — Stability and Reactivity

Chemical Stability	Stable under recommended storage conditions
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Conditions to Avoid	Moisture ingress (hygroscopic)
Incompatible Materials	Strong oxidising agents

Section 11 — Toxicological Information

Acute Toxicity (Oral)	Harmful if swallowed (Category 4)
Serious Eye Damage	Causes serious eye damage (Category 1)
Skin Corrosion/Irritation	Not classified as corrosive or irritant to skin
Respiratory/Skin Sensitisation	Not classified
Carcinogenicity	Not considered a carcinogen by OSHA, NTP, IARC, ACGIH, or the EU
Mutagenicity / Reproductive Toxicity	Not classified

Section 12 — Ecological Information

Ecotoxicity	Very toxic to aquatic life with long-lasting effects (Aquatic Chronic Category 1, H410). Highly water-soluble; toxic to fish and other aquatic organisms.
Terrestrial Toxicity	May be toxic to plant life and other terrestrial organisms at elevated soil concentrations
Persistence and Degradability	Inorganic salt — not subject to biodegradation; zinc ion persists in the environment
Bioaccumulative Potential	Zinc is an essential trace element but may bioaccumulate at elevated environmental concentrations

DO NOT discharge into sewers, waterways, or soil. Avoid release to the environment under all circumstances.

Section 13 — Disposal Considerations

Disposal Method	Dispose of as hazardous/environmentally hazardous waste via a licensed waste contractor in accordance with EPA (Victoria) requirements. Do not dispose via general waste or sewer.
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Section 14 — Transport Information

UN Number	UN3077
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Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc sulfate monohydrate)
Transport Hazard Class	Class 9 (Miscellaneous)
Packing Group	III
Applicable Regulations	ADG (Australia), IATA/ICAO (air), IMDG (sea)

This product IS classified as Dangerous Goods for transport (UN3077, Class 9, Packing Group III) due to its aquatic environmental hazard — DG-compliant packaging, labelling, and shipping documentation are required.

Section 15 — Regulatory Information

Australian Regulations	Classified as a hazardous chemical under WHS (Hazardous Chemicals) Regulations 2023. Listed on the Australian Inventory of Chemical Substances (AICS).
International Inventories	EC number 231-793-3; listed on relevant chemical inventories (TSCA, DSL, EINECS, PICCS, ENCS, IECSC) where applicable

Section 16 — Other Information

Preparation Date	August 2025
Revision	Rev. 1.0
Key Data Sources	Manufacturer SDS data for zinc sulfate monohydrate (CAS 7446-19-7) — DC Fine Chemicals (REACH), Carl Roth, Cameron Chemicals, Fisher Scientific

Disclaimer

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