



Safety Data Sheet

SDS-BA-1022
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Prepared in accordance with Australian Work Health and Safety (Hazardous Chemicals) Regulations 2023 & GHS (7th Revision) | Issue Date: March 2026 | Rev: 1.0

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to WHS Regulations and ADG Code.

Section 1 — Identification of the Substance and of the Company / Undertaking

Product Name	Taurine
IUPAC Name	2-aminoethanesulfonic acid
Other Names	L-Taurine; 2-Aminoethylsulfonic acid; beta-Aminoethylsulfonic acid
Catalog No.	BA-1022
CAS No.	107-35-7
Molecular Formula	C ₂ H ₇ NO ₃ S
Intended Use	Biochemical reagent, cell culture supplement, research and laboratory use, food/supplement applications (where appropriately graded)
Supplier	AuSaMicS Pty Ltd, 31 Longview CT, Thomastown VIC 3074, Australia
ABN	56 676 640 467
Phone	+61 412 520 598
Email / Web	support@ausamics.com / www.ausamics.com.au
Emergency (24h)	Poisons Information Centre: 13 11 26 (Australia)
Poisons Schedule	Not Applicable

Section 2 — Hazard Identification

GHS Classification	Skin Corrosion/Irritation Category 2 (H315). Sensitisation (Skin) Category 1 (H317). Serious Eye Damage/Eye Irritation Category 2A (H319). STOT Single Exposure — Respiratory Tract Irritation Category 3 (H335).
Signal Word	WARNING
Hazard Statements	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H335: May cause respiratory irritation.



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Precautionary — Prevention	P261: Avoid breathing dust. P264: Wash thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P272: Contaminated work clothing should not leave the workplace. P280: Wear protective gloves, protective clothing, eye protection and face protection.
Precautionary — Response	P302+P352: IF ON SKIN: Wash with plenty of water. P304+P340: IF INHALED: Remove person to fresh air. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. Continue rinsing. P312: Call Poisons Centre if unwell. P333+P313: If skin irritation or rash occurs: Get medical advice. P337+P313: If eye irritation persists: Get medical advice. P362+P364: Take off contaminated clothing and wash before reuse.
Precautionary — Storage	P403+P233: Store in well-ventilated place; keep container tightly closed. P405: Store locked up.
Precautionary — Disposal	P501: Dispose of contents/container to authorised hazardous waste collection point per local regulations.
GHS Pictogram	GHS07 (Exclamation mark) — skin/eye irritant; sensitiser; respiratory irritant
Fire/Explosion Hazard	Combustible solid — burns with difficulty; organic dust may form explosive dust-air mixtures in confined spaces with ignition sources; minimise dust generation

Section 3 — Composition / Information on Ingredients

CAS No.	% Weight	Name	GHS Classification
107-35-7	>98%	Taurine (2-aminoethanesulfonic acid)	H315 · H317 · H319 · H335
—	<2%	Moisture and trace impurities	Not classified

Section 4 — First Aid Measures

Eye Contact	Wash out immediately with fresh running water. Ensure complete irrigation — keep eyelids apart, move eyelids occasionally. Seek medical attention without delay if pain persists. Removal of contact lenses after eye injury: skilled personnel only.
Skin Contact	Immediately remove all contaminated clothing including footwear. Flush skin and hair with running water (and soap). Seek medical attention if irritation develops or persists.



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Inhalation	Remove from contaminated area to fresh air. Lay patient down, keep warm and rested. Apply artificial respiration if not breathing — use demand valve resuscitator or pocket mask as trained. Transport to hospital without delay if symptomatic.
Ingestion	Immediately give a glass of water. First aid not generally required. If in doubt contact Poisons Information Centre (13 11 26) or a doctor.
Medical Note	Treat symptomatically. No specific antidote. Oral LD50 (rat) >2000 mg/kg — low acute toxicity.

Section 5 — Fire-Fighting Measures

Flash Point	Not available (non-flammable solid at ambient temperature)
Extinguishing Media	Water spray or fog; foam; dry chemical powder; BCF where regulations permit
Fire Incompatibility	Avoid contamination with oxidising agents (nitrates, oxidising acids, chlorine bleaches, pool chlorine) — ignition risk
Fire/Explosion Hazard	Combustible solid which burns but propagates flame with difficulty. Organic dusts finely divided and suspended in air may form explosive dust-air mixtures. Avoid generating dust clouds in confined/unventilated spaces. Combustion products: CO, CO ₂ , NO _x , SO _x .
Fire-Fighting PPE	SCBA plus protective gloves. Prevent spillage from entering drains or water courses.

Section 6 — Accidental Release Measures

Personal Precautions	Avoid breathing dust. Wear protective clothing, gloves, safety glasses, and P2 dust respirator. Use dry clean-up procedures and avoid generating dust.
Environmental	Prevent entry into drains, waterways, or soil. DO NOT discharge into sewer or waterways.
Minor Spills	Clean up immediately. Use dry clean-up — vacuum (HEPA) or damp cloth. Avoid generating airborne dust.
Major Spills	Moderate hazard. Alert personnel. Alert Emergency Services if required. Control personal contact — wear full PPE. Vacuum or collect and place in sealed containers for disposal per Section 13.



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Section 7 — Handling and Storage

Safe Handling	Avoid skin contact and inhalation. Wear protective clothing when risk of exposure. Use in a well-ventilated area. Prevent dust concentration in hollows and sumps. Minimise airborne dust; eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame. Establish good housekeeping — remove dust accumulations regularly by vacuuming.
Storage	Store in original containers, securely sealed. Cool (15-25 °C), dry area protected from environmental extremes. Store away from incompatible materials and foodstuff containers.
Container	Polyethylene or polypropylene container; check all containers clearly labelled and free from leaks.
Incompatibilities	Avoid reaction with oxidising agents (nitrates, chlorine bleaches, peroxides, oxidising acids)

Section 8 — Exposure Controls / Personal Protection

OEL / TWA (Safe Work Australia)	No specific WES (Workplace Exposure Standard) established for Taurine. Apply ALARA.
Engineering Controls	Local exhaust ventilation where dust generation is possible. Fume hood for fine powder handling. Remove dust accumulations regularly.
Respiratory	P2 dust filter (AS/NZS 1716 & 1715) for routine powder handling. Type P filter of sufficient capacity for significant dust generation.
Eye / Face	Safety glasses with side shields (AS/NZS 1337.1); chemical goggles if splash risk
Hand Protection	Nitrile rubber, polychloroprene, or butyl rubber gloves (AS/NZS 2161). Note: material may produce skin sensitisation — care when removing gloves.
Body Protection	Overalls or lab coat; PVC apron for bulk handling; barrier cream; skin cleansing cream post-exposure
Hygiene	Wash all exposed skin thoroughly after handling. Do not eat, drink, or smoke during handling. Remove contaminated clothing before leaving workplace.

Section 9 — Physical and Chemical Properties

Property	Value
Physical state	Divided solid (crystalline powder)
Appearance	White crystalline powder
Odour	Not available
pH (as supplied)	Not applicable (solid)
pH (1% aqueous solution)	~4.1–4.5
Melting point	>300 °C (decomposes)
Decomposition temperature	~300 °C
Boiling point	Not applicable
Flash point	Not available
Solubility in water	Miscible; ~1:150 at 20 °C (~6.7 g/100 mL)
Molecular weight	125.15 g/mol
Vapour pressure	Negligible
Vapour density (Air=1)	Not applicable
Volatile component	Negligible
Flammability	Not applicable
Explosive properties	Not available
Oxidising properties	Not available

Section 10 — Stability and Reactivity

Reactivity	See Section 7 — Incompatible with oxidising agents
Chemical Stability	Unstable in the presence of incompatible materials (oxidising agents). Product is otherwise considered stable under recommended storage conditions.
Hazardous Reactions	Hazardous polymerisation will not occur. Avoid contact with strong oxidising agents.



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Conditions to Avoid	Heat, moisture, dust generation in confined spaces, oxidising agents
Incompatible Materials	Oxidising agents: nitrates, oxidising acids, chlorine bleaches, pool chlorine, peroxides
Hazardous Decomposition	Combustion products: CO, CO ₂ , NO _x , SO _x , other pyrolysis products typical of burning organic material. May emit poisonous and corrosive fumes.

Section 11 — Toxicological Information

Acute Oral Toxicity	LOW — Oral (Rat) LD ₅₀ : >2000 mg/kg. Classification criteria not met for acute oral toxicity.
Skin Irritation	H315 — Causes skin irritation. Sufficient evidence to classify as skin corrosive/irritating. May accentuate pre-existing dermatitis.
Eye Irritation	H319 — Causes serious eye irritation. Sufficient evidence to classify as eye damaging/irritating.
Skin Sensitisation	H317 — May cause allergic skin reaction. Classified as skin sensitiser (Category 1). Contact allergies manifest as contact eczema (cell-mediated, T-lymphocyte delayed-type reaction).
Respiratory Sensitisation	H335 — May cause respiratory irritation. Material can cause respiratory irritation in some persons. Asthma-like symptoms possible (RADS). Note: Persons with impaired respiratory function may incur further disability.
Mutagenicity	Not classified — criteria not met based on available data
Carcinogenicity	Not classified — criteria not met. Not listed by IARC or NTP.
Reproductive Toxicity	Not classified — criteria not met
STOT Single Exposure	H335 — Respiratory tract irritation (Category 3)
STOT Repeated Exposure	Not classified — criteria not met
Aspiration Hazard	Not classified — not applicable (solid)
Biological Activity	Taurine crosses the blood-brain barrier; roles in inhibitory neurotransmission, calcium homeostasis, osmoregulation, antioxidant defence, adipose tissue regulation, and epileptic seizure prevention. Acts as antioxidant protective against lead and cadmium toxicity. Daily intake of 1.5 g showed no significant effect on insulin secretion in human studies.



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Section 12 — Ecological Information

Aquatic Toxicity	NOEC(ECx) Fish 96h: >100 mg/L (Source: ECHA). LC50 Fish 96h: >100 mg/L. Low aquatic toxicity.
Persistence (Water/Soil)	HIGH persistence in water/soil environments
Persistence (Air)	HIGH persistence in air
Bioaccumulation	LOW — LogKOW = -3.36
Mobility in Soil	HIGH mobility — Log KOC = 1.339
Other	DO NOT discharge into sewer or waterways. Despite low acute aquatic toxicity, avoid environmental release due to high persistence and mobility.

Section 13 — Disposal Considerations

Waste Classification	General chemical/laboratory waste. Consult local, state, and federal regulations.
Disposal Method	Containers may still present hazard when empty. Return to supplier for reuse/recycling if possible. If container cannot be cleaned sufficiently, puncture and bury at authorised landfill.
Liquid Waste	DO NOT allow wash water from cleaning to enter drains. Collect wash water for treatment before disposal.
Drain Disposal	Disposal to sewer subject to local laws and regulations. Contact responsible authority if in doubt.
Retain Documentation	Retain label warnings and SDS. Observe all notices pertaining to the product.

Section 14 — Transport Information

UN Number	Not regulated — Not a Dangerous Good
ADG (Australia)	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
IATA / ICAO	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
IMDG / Sea	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS



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Marine Pollutant	NO
HAZCHEM	Not Applicable

Section 15 — Regulatory Information

AIIC (Australia)	Listed on Australian Inventory of Industrial Chemicals (AIIC) — CAS 107-35-7
SUSMP (Poisons Schedule)	Not Applicable
WHS Regulations	Classified as hazardous chemical under WHS (Hazardous Chemicals) Regulations 2023 — H315, H317, H319, H335
Australia — Non-Industrial Use	Yes (AIIC)
Europe — EINECS/ELINCS	Yes (CAS 107-35-7 listed)
USA — TSCA	Active (TSCA Inventory)
Canada — DSL	Yes
New Zealand — NZIoC	Yes
Japan — ENCS	Yes
Korea — KECI	Yes
China — IECSC	Yes
REACH (EU)	Complies with REACH Regulation (EC) No. 1907/2006

Section 16 — Other Information

SDS Prepared By	AuSaMicS Pty Ltd — Technical & Quality Department
Issue Date	March 2026 · Rev 1.0
Review Date	March 2027 or upon regulatory change / update to WHS Regulations
Based On	CCC Ingredients Pty Ltd SDS Chemwatch 57628 Version 6.1 (02/02/2026); ECHA Registered Substances data; RTECS



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WHS Regulation Reference	Work Health and Safety (Hazardous Chemicals) Regulations 2023 (Cth/States)
GHS Reference	Globally Harmonised System of Classification and Labelling of Chemicals (GHS), 7th Revised Edition
CAS Numbers	CAS 107-35-7 (anhydrous); CAS 91105-79-2 (hydrate form)
Key References	Huxtable R.J. (1992) <i>Physiol Rev</i> 72:101; ECHA REACH registration data; Safe Work Australia WES guidelines

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