

Tryptic Soy Broth (TSB)

Catalogue No. AS-1371 · Australian WHS Regulations 2023 · GHS 7th Edition · Safe Work Australia

Section 1 — Identification

Product Name	Tryptic Soy Broth (TSB)
Synonyms	CASO Broth; Casein Soya Broth; Soybean Casein Digest Broth; Tryptone Soya Broth
Catalogue Number	AS-1371
Product Use	General-purpose non-selective microbiological culture medium — sterility testing, pharmaceutical QC, food microbiology, clinical diagnostics
Supplier	AuSaMicS Pty Ltd
Address	31 Longview CT, Thomastown, VIC 3074, Australia
ABN	ABN: 56 676 640 467
Emergency Contact	+61 412 520 598
Email	support@ausamics.com.au
Website	www.ausamics.com.au
Emergency Telephone	Poisons Information Centre: 13 11 26 (Australia, 24 hr)
SDS Prepared	May 2025
Revision	Rev. 2

Section 2 — Hazard Identification

GHS Classification (WHS Regulations 2023 / GHS 7th Edition):

This product is NOT classified as a hazardous substance or dangerous goods under Australian WHS Regulations 2023 (GHS 7th Edition).

Signal Word: None required.

Hazard Statements: None required.

Precautionary Statements: None required.

Other Hazards:

Product does not contain any PBT or vPvB components at $\geq 0.1\%$. No endocrine disrupting properties identified. Fine powder may present a dust explosion hazard if dispersed and ignited.

Section 3 — Composition / Information on Ingredients

Mixture of nutritive components of biological origin. No components require disclosure under Australian WHS Regulations 2023 at their respective concentrations.

Component	g/L	CAS (approx.)	Hazard
Pancreatic Digest of Casein	15.0	91079-38-8	Not hazardous
Papaic Digest of Soybean Meal	5.0	68238-36-8	Not hazardous
Sodium Chloride	5.0	7647-14-5	Not hazardous

Component	g/L	CAS (approx.)	Hazard
Dipotassium Hydrogen Phosphate	2.5	7758-11-4	Not hazardous
Dextrose (D-Glucose)	2.5	50-99-7	Not hazardous

Section 4 — First Aid Measures

Inhalation	Remove to fresh air. Seek medical attention if respiratory symptoms develop.
Skin Contact	Remove contaminated clothing. Wash with soap and water ≥15 min. Seek advice if irritation develops.
Eye Contact	Irrigate with copious water ≥15 min, hold eyelids apart. Remove contact lenses. Seek medical attention if irritation persists.
Ingestion	Rinse mouth. Do not induce vomiting. Give 200 mL water to drink. Seek medical advice if large amounts ingested.
Medical Notes	No specific antidote. Treat symptomatically.

Section 5 — Fire-Fighting Measures

Flammability	Combustible as fine powder — dust explosion potential when dispersed in air.
Suitable Extinguishing Media	Water spray, foam, dry powder, carbon dioxide (CO ₂).
Combustion Products	Oxides of carbon, nitrogen, sulfur, sodium, and potassium.
Protective Equipment	Self-contained breathing apparatus (SCBA) and full protective clothing.
Additional Information	Prevent fire-fighting water from contaminating surface water or groundwater.

Section 6 — Accidental Release Measures

Personal Precautions	Avoid generating dust. Use appropriate PPE (see Section 8). Keep unnecessary personnel away.
Environmental Precautions	Prevent entry into drains, sewers, or waterways.
Containment / Clean-up	Carefully sweep or vacuum dry powder. Transfer to sealed, labelled container. Clean area with damp cloth.

Section 7 — Handling and Storage

Handling Precautions	Avoid inhalation of dust during weighing. Use in well-ventilated area. Wash hands after handling.
Storage Conditions	Tightly sealed container at 15–30°C. Keep away from moisture, heat above 40°C, and direct sunlight.
Incompatibilities	Strong oxidising agents, concentrated acids and bases.
Storage Classification (AS/NZS)	Class C1 — Combustible solids (low-hazard category)

Section 8 — Exposure Controls / Personal Protection

Workplace Exposure Standards (WES — Safe Work Australia):

No specific WES established for this mixture. Apply good laboratory practice (GLP).

Respiratory Protection	P1 or P2 particulate filter respirator when handling bulk powder.
Eye/Face Protection	Safety glasses or chemical splash goggles when handling bulk quantities.
Skin Protection	Nitrile gloves (minimum 0.11 mm). Laboratory coat and closed-toe footwear.
Hygiene	Wash hands thoroughly after handling. Do not eat, drink, or smoke in work area.
Ventilation	General laboratory ventilation is sufficient under normal conditions.

Section 9 — Physical and Chemical Properties

Physical State	Powder (dehydrated)
Colour	Light beige to cream
Odour	Characteristic slight organic odour
pH (3.0% solution, 25°C)	7.3 ± 0.2
Solubility	Freely soluble in water — complete dissolution at 30 g/L
Physical Form	Homogeneous, free-flowing powder
Bulk Density	Approx. 0.5–0.7 g/mL
Flash Point	Not applicable (solid)
Flammability	Combustible solid — dust explosion risk if dispersed as fine aerosol
Oxidising Properties	None
Explosive Properties	Not explosive under normal handling conditions

Section 10 — Stability and Reactivity

Reactivity	No known reactivity hazards under normal conditions.
Chemical Stability	Stable at 15–30°C in dry, sealed container.
Conditions to Avoid	Moisture, temperatures above 40°C, open flames.
Incompatible Materials	Strong oxidising agents, concentrated acids and bases.
Hazardous Decomposition	On combustion: oxides of carbon, nitrogen, sulfur, sodium, and potassium.

Section 11 — Toxicological Information

Acute Toxicity: No classification required. All components are of low acute toxicity at formulated concentrations.

Skin Irritation: Not expected to cause significant skin irritation under normal use.

Eye Irritation: Dust may cause mild mechanical irritation.

Respiratory Sensitisation: Not classified. Avoid prolonged inhalation of dust.

Carcinogenicity: No components classified as carcinogenic under Australian WHS Regulations 2023.

Reproductive Toxicity: Not classified.

Endocrine Disruption: No components with endocrine disrupting properties at ≥0.1%.

Aspiration Hazard: Not applicable (solid powder).

Section 12 — Ecological Information

Aquatic Toxicity	Not expected to cause significant harm to aquatic organisms at laboratory use quantities.
Persistence / Degradability	Components (peptones, dextrose, phosphates, NaCl) are readily biodegradable.
Bioaccumulation	Not expected to bioaccumulate.
PBT / vPvB Assessment	No PBT or vPvB components at $\geq 0.1\%$.
Other Adverse Effects	None known.

Section 13 — Disposal Considerations

Waste Disposal	Autoclave all inoculated broth (121°C / 15 min) before disposal as biological waste per institutional biosafety procedures and local EPA regulations.
Contaminated Packaging	Rinse empty container with water. Dispose per local council regulations.
Regulatory Reference	Environment Protection Act 2017 (Vic); relevant State/Territory EPA requirements.

Section 14 — Transport Information

UN Number	Not regulated
UN Proper Shipping Name	Not a dangerous good
Transport Hazard Class	None — ADG Code (Australia), IMDG, IATA
Packing Group	Not applicable
Environmental Hazards	Not a marine pollutant (IMDG)
Special Precautions	No special transport requirements

Section 15 — Regulatory Information

This Safety Data Sheet has been prepared in accordance with:

- Australian Work Health and Safety (WHS) Regulations 2023
- Safe Work Australia — Preparation of Safety Data Sheets for Hazardous Chemicals (Code of Practice, 2021)
- GHS — Globally Harmonised System of Classification and Labelling of Chemicals, 7th Revised Edition (UN, 2017)
- AICIS — Australian Industrial Chemicals Introduction Scheme

AICIS Status: All components are listed on the Australian Inventory of Industrial Chemicals (AIIC) or exempt under the Industrial Chemicals Act 2019.

Poisons Standard (SUSMP): Not scheduled.

Section 16 — Other Information

Prepared By	AuSaMicS Pty Ltd
Contact	support@ausamics.com.au
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Summary of Changes

Updated to Australian WHS Regulations 2023 and GHS 7th Edition. Regulatory section updated from EU REACH/EC No. 1907/2006 to Australian framework. Contact corrected to support@ausamics.com.au. CAS numbers and concentrations added to Section 3. Section 9 physical properties fully populated. Poisons Information Centre (13 11 26) added to Section 1.

Disclaimer

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