AuSaMicS™ Life Science

Safety Data Sheet
AS-1271 | GHS 7th Ed | WHS 2023
www.ausamics.com.au

Letheen Broth, Modified

Catalogue No. AS-1271 · Australian WHS Regulations 2023 · GHS 7th Edition · Safe Work Australia

Section 1 — Identification

Product Name	Letheen Broth, Modified
Synonyms	Modified Letheen Broth; Letheen Broth Base Modified + Tween 80
Catalogue Number	AS-1271
Product Use	Neutralising enrichment broth for microbiological examination of cosmetics, non-sterile pharmaceuticals, and preserved personal care products. Laboratory and industrial QC use only.
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 2026
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) at intended use concentrations.

Signal Word: None required.

Hazard Statements: None required.

Other Hazards:

Sodium bisulfite component (0.1 g/L in dehydrated form) may cause mild respiratory irritation if inhaled as dust. Fine powder may present a dust explosion hazard if dispersed and ignited. No PBT or vPvB components at ≥0.1%.

Polysorbate 80 (Tween® 80): Non-ionic surfactant — not classified as hazardous at concentrations present in this mixture. May cause mild eye irritation if concentrated solution contacts eyes.

Section 3 — Composition / Information on Ingredients

Mixture. No components require mandatory disclosure under Australian WHS Regulations 2023 at their respective concentrations. The following information is provided voluntarily for transparency.

Component	g/L	CAS (approx.)	Hazard Class
Meat Peptone	20.0	73049-73-7	Not hazardous
Casein Peptone	5.0	91079-38-8	Not hazardous

Component	g/L	CAS (approx.)	Hazard Class
Beef Extract	5.0	N/A (mixture)	Not hazardous
Yeast Extract	2.0	8013-01-2	Not hazardous
Lecithin (Soya)	0.7	8002-43-5	Not hazardous
Polysorbate 80 (Tween® 80)	5.0	9005-65-6	Eye Irrit. 2 (H319) at high conc. — not classified at use level
Dextrose (D-Glucose)	1.0	50-99-7	Not hazardous
Sodium Chloride	5.0	7647-14-5	Not hazardous
Sodium Bisulfite	0.1	7631-90-5	Resp. Irrit. — not classified at use level; handle with care in powder form

Section 4 — First Aid Measures

Inhalation	Remove to fresh air. If respiratory symptoms (coughing, difficulty breathing) develop, seek medical attention. Note: sodium bisulfite dust may cause bronchospasm in susceptible individuals (asthma).
Skin Contact	Wash with soap and water for ≥15 min. Remove contaminated clothing. Seek advice if irritation develops.
Eye Contact	Irrigate immediately with copious water for ≥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. Call Poisons Centre 13 11 26. Seek medical advice.
Medical Notes	No specific antidote. Treat symptomatically. Notify treating physician of sodium bisulfite content if large amounts ingested (sulphite sensitivity possible).

Section 5 — Fire-Fighting Measures

Flammability	Combustible as fine powder — dust explosion potential when dispersed in air and ignited.
Suitable Extinguishing Media	Water spray, foam, dry powder, CO_2.
Combustion Products	Oxides of carbon, nitrogen, sulfur (SO_2 from bisulfite), sodium, and phosphorus.
Protective Equipment	Self-contained breathing apparatus (SCBA) and full protective clothing.
Additional Information	Prevent fire-fighting water from contaminating waterways or drains.

Section 6 — Accidental Release Measures

Personal Precautions	Avoid generating dust. Use P1/P2 respirator, safety glasses, and nitrile gloves. Keep unnecessary personnel away from spill.
Environmental Precautions	Prevent entry into drains, sewers, or waterways. Surfactant (Polysorbate 80) content may affect aquatic organisms.
Containment / Clean-up	Sweep or vacuum dry powder carefully. Transfer to sealed labelled container. Clean area with damp cloth. Dispose per Section 13.

Section 7 — Handling and Storage

Handling	Avoid inhalation of dust — particularly for those with sulphite sensitivity or asthma. Use in a well-ventilated area. Wash hands thoroughly after handling.
Storage	Tightly sealed container at 15–25°C. Keep away from moisture, heat above 35°C, and direct sunlight. Note: Polysorbate 80 is hygroscopic and may cake if exposed to moisture.
Incompatibilities	Strong oxidising agents; strong acids (may release SO_2 from bisulfite component).
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 for the mixture. Sodium bisulfite: WES-TWA = 5 mg/m³ (as SO_2 equivalent); observe during bulk powder handling.

Respiratory Protection	P1 or P2 particulate filter respirator when weighing or handling bulk powder. Especially important for individuals with sulphite sensitivity or asthma.
Eye/Face Protection	Safety glasses or splash goggles when handling bulk powder or concentrated solutions.
Skin Protection	Nitrile gloves (minimum 0.11 mm). Laboratory coat and closed-toe footwear.
Hygiene	Wash hands after handling. Do not eat, drink, or smoke in work area.
Ventilation	General laboratory ventilation sufficient. Local exhaust ventilation recommended for bulk weighing.

Section 9 — Physical and Chemical Properties

Physical State	Powder (dehydrated)
Colour	Cream to light beige
Odour	Slight characteristic organic odour; faint sulfurous note (bisulfite)
pH (prepared 3.8% solution, 25°C)	7.2 ± 0.2
Solubility	Soluble in water at 38 g/L; slight opalescence due to lecithin is normal
Bulk Density	Approx. 0.45–0.65 g/mL
Flash Point	Not applicable (solid)
Flammability	Combustible solid; dust explosion risk if dispersed as fine aerosol and ignited
Hygroscopicity	Moderate (Polysorbate 80 is hygroscopic) — store tightly sealed
Oxidising Properties	None
Explosive Properties	Not explosive under normal handling; dust explosion possible if finely dispersed

Section 10 — Stability and Reactivity

Reactivity	No known reactivity hazards under normal conditions.
Chemical Stability	Stable at 15–25°C in dry, tightly sealed container. Polysorbate 80 may yellow slightly on prolonged storage — does not affect performance within shelf life.

Conditions to Avoid	Moisture, heat above 35°C, direct sunlight, strong acids (liberates SO_2 from bisulfite).
Incompatible Materials	Strong oxidising agents, concentrated acids and bases.
Hazardous Decomposition	On combustion: CO, CO_2, NOx, SO_2 (from bisulfite), phosphorus oxides (from lecithin).

Section 11 — Toxicological Information

Acute Toxicity: Not classified as acutely toxic at normal laboratory use concentrations. All components are of low acute toxicity at formulated concentrations.

Skin Irritation: Not expected to cause significant skin irritation.

Eye Irritation: Slight eye irritation possible from Polysorbate 80 at concentrated solution — rinse with water.

Respiratory: Sodium bisulfite may cause bronchospasm in asthma or sulphite-sensitive individuals — avoid dust inhalation.

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

Reproductive Toxicity: Not classified.

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

Section 12 — Ecological Information

Aquatic Toxicity	Polysorbate 80 is a surfactant — avoid large quantities entering waterways. At typical laboratory concentrations, environmental impact is expected to be low.
Persistence	Components are biodegradable (peptones, dextrose, bisulfite). Polysorbate 80 is readily biodegradable.
Bioaccumulation	Not expected.
PBT / vPvB	No PBT or vPvB components at ≥0.1%.

Section 13 — Disposal Considerations

Inoculated Media	Autoclave all inoculated broth (121°C / 15 min) before disposal as biological waste per institutional biosafety procedures.
Unused Powder	Dispose as general chemical waste via licensed contractor. Avoid drain disposal of large quantities (surfactant content).
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)

Section 15 — Regulatory Information

This SDS is 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, 7th Revised Edition (UN, 2017)
· AICIS — Australian Industrial Chemicals Introduction Scheme

AICIS Status: All components listed on Australian Inventory of Industrial Chemicals (AIIC) or exempt.
Poisons Schedule (SUSMP): Not scheduled.

Section 16 — Other Information

Prepared By	AuSaMicS Pty Ltd
Contact	support@ausamics.com.au
Revision Date	May 2026
Revision Number	Rev. 2
Summary of Changes	Updated to Australian WHS Regulations 2023 and GHS 7th Edition. Contact corrected to support@ausamics.com.au. Section 3 components and CAS numbers populated. Section 9 physical properties fully populated. Sodium bisulfite hazard note added. Poisons Information Centre (13 11 26) added.