



SAFETY DATA SHEET

AS-1364 | Thioglycollate Medium, Brewer Modified
www.ausamics.com.au

Safety Data Sheet

Thioglycollate Medium, Brewer Modified | Catalogue No. AS-1364

Prepared in accordance with the Australian WHS Regulations and GHS (7th Edition)

SECTION 1 — Identification

Product Name	Thioglycollate Medium, Brewer Modified
Catalogue No.	AS-1364
Intended Use	Enriched reducing medium for anaerobic cultivation and pharmaceutical sterility testing — laboratory use only
Supplier	AuSaMicS Pty Ltd 31 Longview CT, Thomastown, VIC 3074, Australia
ABN	56 676 640 467
Emergency	Poisons Information Centre: 13 11 26 (Australia, 24 hr) +61 412 520 598
Email	support@ausamics.com.au
Website	www.ausamics.com.au

SECTION 2 — Hazard Identification

GHS Classification: The mixture is not classified as hazardous according to GHS criteria under Australian WHS Regulations 2011 at typical laboratory use concentrations. However, component-level classifications are noted in Section 3.

Signal Word: Warning (for pure sodium thioglycollate component)

Hazard Statements (mixture): H302 — Harmful if swallowed (sodium thioglycollate component, present at 0.5 g/L — low risk at use concentrations). At typical use concentrations and with normal laboratory handling, the mixture poses minimal hazard.

Precautionary Statements: P260 — Do not breathe dust. P264 — Wash hands after handling. P270 — Do not eat, drink, or smoke when using. P301+P312 — If swallowed and feeling unwell: call a Poison Centre. P501 — Dispose per applicable regulations.

SECTION 3 — Composition / Information on Ingredients



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Component	CAS Number	Proportion	GHS Classification
Pancreatic Digest of Casein	73049-73-7	~52.6%	Not classified
Yeast Extract	8013-01-2	~17.5%	Not classified
Dextrose (D-Glucose)	50-99-7	~8.8%	Not classified
Sodium Chloride	7647-14-5	~17.5%	Not classified
Sodium Thioglycollate	367-51-1	~1.75%	H302 Harmful if swallowed; H311 Harmful if skin contact; H331 Harmful if inhaled
L-Cystine	56-89-3	~1.75%	Not classified
Resazurin	62758-13-8	<0.01%	Not classified at this concentration
Agar	9002-18-0	~1.75%	Not classified

Note: Sodium thioglycollate is present at 0.5 g/L (0.5 g per 1000 g mixture). At this working concentration and with standard laboratory practice, it presents negligible hazard. Handle with normal laboratory precautions.

SECTION 4 — First Aid Measures

Inhalation	Remove to fresh air. If respiratory symptoms persist, seek medical attention.
Skin Contact	Wash with soap and water for at least 15 minutes. Remove contaminated clothing.
Eye Contact	Flush immediately with water for at least 15 minutes. Seek medical attention if irritation persists.
Ingestion	Do not induce vomiting. Rinse mouth. Seek medical advice. Inform treating physician of sodium thioglycollate content.
Symptoms	Mild irritation of skin, eyes, or respiratory tract at high dust exposure. Sodium thioglycollate may cause sensitisation in susceptible individuals.

SECTION 5 — Fire-Fighting Measures

Flammability	Not flammable
Extinguishing media	CO ₂ , dry chemical, or water spray



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Specific hazards

Combustion produces CO, CO₂, nitrogen oxides, sulfur compounds

PPE

SCBA if involved in fire

SECTION 6 — Accidental Release Measures

- Avoid dust generation. Wear P1 mask and nitrile gloves.
- Sweep up carefully — do not vacuum without dust filter.
- For inoculated medium spills — treat as biohazardous material. Disinfect area with 1% sodium hypochlorite.
- Dispose per institutional and local regulatory requirements.

SECTION 7 — Handling and Storage

Handling: Standard laboratory precautions. Avoid generating dust. Do not eat, drink, or smoke while handling. Wash hands thoroughly after use. Be aware of sodium thioglycollate reducing properties — avoid contact with strong oxidising agents.

Storage: Dehydrated powder: 15–30 °C, tightly sealed, dry, original container. Prepared medium: 2–8 °C, protect from light and oxygen. Heat to expel dissolved O₂ before use.

SECTION 8 — Exposure Controls / Personal Protection

OEL (sodium thioglycollate)

No specific Australian WES. Treat with care — potential skin sensitiser.

Respiratory protection

P1 dust mask for powder handling. Not required for prepared liquid.

Eye protection

Safety glasses — mandatory for powder and inoculated medium handling

Skin protection

Disposable nitrile gloves; lab coat

Engineering controls

Well-ventilated laboratory. Biological safety cabinet for inoculated media.

SECTION 9 — Physical and Chemical Properties



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Appearance	Cream to light beige powder
Odour	Faint characteristic yeast/broth odour with slight sulfurous note (sodium thioglycollate)
pH (prepared, 25 °C)	7.1 ± 0.2
Solubility	Completely soluble with gentle heating
Moisture content	≤ 5.0%
Flammability	Not flammable
Reducing properties	Sodium thioglycollate and L-cystine act as reducing agents — react with oxidants

SECTION 10 — Stability and Reactivity

Stability	Stable under recommended storage conditions
Conditions to avoid	Moisture, heat, strong oxidising agents, direct light
Incompatible materials	Strong oxidising agents (react with sodium thioglycollate), strong acids, strong alkalis
Hazardous decomposition	Combustion: CO, CO ₂ , nitrogen oxides, sulfur oxides
Hazardous polymerisation	Will not occur

SECTION 11 — Toxicological Information

Acute oral toxicity	Sodium thioglycollate LD ₅₀ (rat, oral): ~500–800 mg/kg. Present at 0.5 g/L — minimal acute risk at use concentration.
Skin irritation	Mild potential irritant; sodium thioglycollate may cause sensitisation
Eye irritation	Mild mechanical irritation from dust
Respiratory sensitisation	Sodium thioglycollate may cause sensitisation in susceptible individuals
Carcinogenicity	No components listed as carcinogens (IARC, NTP, OSHA)



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Biological hazard

Inoculated medium may contain pathogenic organisms — handle per BSL-2 requirements

SECTION 12 — Ecological Information

Aquatic toxicity

Sodium thioglycollate is harmful to aquatic organisms — prevent large quantities entering waterways

Biodegradability

Organic components are biodegradable

Bioaccumulation

Not expected to bioaccumulate

SECTION 13 — Disposal Considerations

Uninoculated medium: Dispose as chemical waste per local regulations. Neutralise reducing agents before disposal to drain in small quantities.

Inoculated medium: Autoclave at 121 °C for 30 minutes to inactivate all viable organisms before disposal. Treat as BSL-2 biological waste.

SECTION 14 — Transport Information

UN Number

Not applicable

Proper shipping name

Not regulated as dangerous goods

ADG / IATA / IMDG

Not classified

Special precautions

Keep dry during transport; protect from extreme temperatures

SECTION 15 — Regulatory Information

WHS Regulations 2011

Mixture not classified as hazardous at use concentration

Sodium thioglycollate

Listed on AIIIC; handle with appropriate care

ARTG / TGA

Not registered — laboratory use only

Transport

Not classified as dangerous goods



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SECTION 16 — Other Information

Prepared by AuSaMicS Pty Ltd — Quality Assurance

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Version 1.0

GHS version 7th Edition (2017)

Supersedes All previous versions

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