

SAFETY DATA SHEET

Thioglycollate Broth (TGB)

CAS: Mixture | Catalog: AS-1363 | Prepared in accordance with GHS/SDS requirements

Issue Date: 2025 | Revision: 1.0 | Supersedes: All previous versions

SECTION 1 — IDENTIFICATION

| | |
|-------------------|--|
| Product Name | Thioglycollate Broth (TGB) |
| Catalog Number | AS-1363 |
| Chemical Nature | Mixture — dehydrated culture medium |
| Intended Use | Microbiological culture medium for laboratory use only |
| Supplier | AuSaMicS Pty Ltd |
| Address | 31 Longview CT, Thomastown, VIC 3074, Australia |
| ABN | ABN: 56 676 640 467 |
| Phone | +61 412 520 598 |
| Email | support@ausamics.com |
| Website | www.ausamics.com.au |
| Emergency Contact | Poisons Information Centre (Australia): 13 11 26 |

SECTION 2 — HAZARD IDENTIFICATION

GHS Classification: Not classified as a hazardous substance under the GHS criteria based on available data for this mixture. Individual components (sodium thioglycollate) may be irritating in concentrated form — use at recommended dilutions.

Signal Word: Not required for this mixture.

Precautionary Statements:

- P260 — Avoid breathing dust
- P264 — Wash hands thoroughly after handling
- P270 — Do not eat, drink, or smoke when using this product
- P280 — Wear protective gloves and eye/face protection
- P501 — Dispose of contents in accordance with local regulations

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS No. | Approx. % | GHS Note |
|-----------|---------|-----------|----------|
|-----------|---------|-----------|----------|

| | | | |
|-----------------------------|------------|---------|------------------------------|
| Pancreatic digest of casein | 91079-46-8 | ~52% | Not hazardous |
| Yeast extract | 8013-01-2 | ~17% | Not hazardous |
| Sodium chloride | 7647-14-5 | ~17% | Not hazardous at use levels |
| Dextrose | 50-99-7 | ~9% | Not hazardous |
| Sodium thioglycollate | 367-51-1 | ~2% | Irritant — diluted in medium |
| L-Cystine | 56-89-3 | ~2% | Not hazardous at use levels |
| Resazurin | 62758-13-8 | < 0.01% | Not hazardous at use levels |

SECTION 4 — FIRST AID MEASURES

| Route | First Aid Action |
|--------------|--|
| Eye Contact | Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation persists. |
| Skin Contact | Wash thoroughly with soap and water. If irritation develops, seek medical advice. |
| Inhalation | Move to fresh air. If breathing difficulties persist, seek medical attention. |
| Ingestion | Rinse mouth with water. Do not induce vomiting. Contact Poisons Information Centre (13 11 26) if large amounts ingested or symptoms develop. |

SECTION 5 — FIRE-FIGHTING MEASURES

- Suitable extinguishing media: Water spray, foam, dry powder, CO₂
- Not classified as flammable under standard conditions
- Combustion may produce irritating fumes including nitrogen and sulfur oxides
- Fire-fighters: wear self-contained breathing apparatus and full protective clothing

SECTION 6 — ACCIDENTAL RELEASE MEASURES

- Wear gloves and eye protection; avoid generating dust
- Sweep carefully or vacuum; collect in sealed containers for disposal
- Avoid discharge to waterways — may promote unwanted microbial growth

SECTION 7 — HANDLING AND STORAGE

| Aspect | Guidelines |
|--------|------------|
|--------|------------|

| | |
|--------------------------|--|
| Handling | Avoid dust; do not eat/drink/smoke; wash hands after use. Use in well-ventilated area. |
| Storage | Dehydrated: 15–30°C, dry, tightly sealed. Prepared: 2–8°C, protected from light. |
| Incompatibilities | Strong oxidising agents; concentrated acids and bases. |

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

| PPE | Specification |
|---------------------|---|
| Respiratory | General ventilation sufficient for routine use; P2 dust mask for large quantities |
| Hands / Eyes | Nitrile gloves; safety glasses or goggles |
| Body | Laboratory coat; closed-toe footwear |
| OEL | No specific OEL established — apply good laboratory practice |

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------------------|---|
| Physical Form | Solid (free-flowing powder) |
| Colour | Light beige to cream |
| Odour | Faint characteristic odour (yeast extract) |
| Solubility | Soluble in water on heating |
| pH (prepared, 25°C) | 7.1 ± 0.2 |
| Flammability | Not classified as flammable |
| Redox indicator | Resazurin — pink/colourless depending on O ₂ level |

SECTION 10 — STABILITY AND REACTIVITY

- Stable under recommended storage conditions
- Sodium thioglycollate is a reducing agent — keep away from strong oxidising agents
- Conditions to avoid: Strong direct light, excess moisture, high temperatures
- Hazardous decomposition: Sulfur compounds, nitrogen oxides upon combustion
- Hazardous polymerisation: Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

| | |
|----------------------------|--|
| Acute Oral Toxicity | Low for mixture — ingredients are food-grade or research-grade materials |
| Skin Irritation | Not classified; mild irritation possible on prolonged contact |

| | |
|---------------------------------------|---|
| Eye Irritation | May cause mild mechanical irritation from dust |
| Sodium thioglycollate note | Irritant in concentrated form — diluted safely in medium at 0.5 g/L |
| Carcinogenicity / Mutagenicity | Not classified for this mixture |

SECTION 12 — ECOLOGICAL INFORMATION

- Aquatic toxicity: Not classified as acutely toxic — avoid large-scale discharge to waterways
- May promote unwanted microbial growth if discharged untreated to drains or waterways
- Readily biodegradable organic components
- Low bioaccumulation potential

SECTION 13 — DISPOSAL CONSIDERATIONS

- Autoclave prepared medium before disposal as biological waste where applicable
- Dispose of in accordance with local and national regulations
- Do not discharge large volumes of sodium thioglycollate to sewers without treatment

SECTION 14 — TRANSPORT INFORMATION

| | |
|----------------------|--|
| UN Number | Not classified as dangerous goods (ADG / IATA / IMDG) |
| Packing Group | Not applicable |
| Special Notes | Keep dry during transport. Avoid temperature extremes. |

SECTION 15 — REGULATORY INFORMATION

Prepared culture medium — HS Code 3821.00.00. Intended exclusively for laboratory research and diagnostic use. Not subject to food, therapeutic goods, or agricultural chemical regulations. Supplier: AuSaMicS Pty Ltd | 31 Longview CT, Thomastown, VIC 3074, Australia | ABN: 56 676 640 467 | +61 412 520 598 | support@ausamics.com

SECTION 16 — OTHER INFORMATION

| | |
|----------------------|--|
| Prepared By | AuSaMicS Pty Ltd — Quality & Regulatory Affairs |
| Address | 31 Longview CT, Thomastown, VIC 3074, Australia |
| ABN | ABN: 56 676 640 467 |
| Phone / Email | +61 412 520 598 support@ausamics.com |
| Website | www.ausamics.com.au |
| Issue Date | 2025 |



Safety Data Sheet (GHS)

SDS-AS-1363

www.ausamics.com.au

Revision

Version 1.0

DISCLAIMER

The information provided in this document is based on data considered accurate at the time of issue. AuSaMicS Pty Ltd has taken reasonable care in its preparation but does not warrant completeness or accuracy for all applications. This product is intended exclusively for laboratory research use by qualified professionals — not for human or veterinary therapeutic use, food, feed, or pharmaceutical manufacturing. Users are responsible for validating the product for their specific application and for compliance with all applicable local, state, and federal regulations. AuSaMicS Pty Ltd's liability is limited to the purchase price of the product. This document is subject to change without notice — refer to ausamics.com.au for the current version.

AuSaMicS Pty Ltd | 31 Longview CT, Thomastown, VIC 3074, Australia | ABN: 56 676 640 467
www.ausamics.com.au | support@ausamics.com | +61 412 520 598