



SAFETY DATA SHEET

AS-1233 | Fluid Thioglycollate Medium (FTM)
www.ausamics.com.au

Safety Data Sheet

Fluid Thioglycollate Medium (FTM) | Catalogue No. AS-1233

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

SECTION 1 — Identification

Product Name	Fluid Thioglycollate Medium (FTM)
Catalogue Number	AS-1233
Intended Use	Multi-purpose enriched reducing medium for aerobic/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.

Signal Word: Warning (sodium thioglycollate component — at high concentration only)

Hazard Statements: H302 — Harmful if swallowed (sodium thioglycollate component at 0.5 g/L — negligible risk at use concentration). At typical laboratory handling, the prepared mixture presents minimal chemical hazard.

Precautionary Statements: P260 — Do not breathe dust/fumes. P264 — Wash hands after handling. P270 — No eating, drinking, or smoking. P301+P312 — If swallowed and unwell: call Poisons Centre. P501 — Dispose per regulations.

Biological Hazard Note: Handle inoculated medium at Biosafety Level 2 (BSL-2). Use Universal Precautions for clinical specimens — gloves, lab coat, eye protection. Autoclave all inoculated waste before disposal.



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SECTION 3 — Composition / Information on Ingredients

Component	CAS Number	Proportion	GHS Classification
Pancreatic Digest of Casein	73049-73-7	~51.3%	Not classified
Yeast Extract	8013-01-2	~17.1%	Not classified
Dextrose (D-Glucose)	50-99-7	~18.8%	Not classified
L-Cystine	56-89-3	~1.7%	Not classified
Sodium Chloride	7647-14-5	~8.5%	Not classified
Sodium Thioglycollate	367-51-1	~1.7%	H302 Harmful if swallowed; H311 skin contact; H331 inhaled
Agar	9002-18-0	~2.6%	Not classified
Resazurin (sodium salt)	62758-13-8	<0.01%	Not classified at this concentration

Sodium thioglycollate is present at 0.5 g/L (~1.7% w/w). At this concentration with standard laboratory handling, it presents negligible hazard. Apply standard laboratory precautions.

SECTION 4 — First Aid Measures

Inhalation	Remove to fresh air. Seek medical attention if symptoms persist.
Skin Contact	Wash with soap and water ≥15 minutes. Note: sodium thioglycollate may cause sensitisation with repeated exposure.
Eye Contact	Flush immediately with copious water ≥15 minutes. Seek medical attention.
Ingestion	Do not induce vomiting. Rinse mouth. Seek medical advice. Inform of sodium thioglycollate content.
Symptoms	Mild skin/eye/respiratory irritation at high dust exposure. Sodium thioglycollate — potential skin sensitiser.

SECTION 5 — Fire-Fighting Measures

Flammability	Not flammable under normal conditions
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Extinguishing media	CO ₂ , dry chemical, or water spray
Decomposition products	CO, CO ₂ , nitrogen oxides, sulfur compounds on combustion
PPE	SCBA if involved in fire

SECTION 6 — Accidental Release Measures

- Powder: Avoid dust. Wear P1 mask and nitrile gloves. Sweep up carefully.
- Liquid spill (uninoculated): Absorb with paper towels. Clean with water.
- Inoculated spill: BSL-2 precautions. Disinfect with 1% sodium hypochlorite. Autoclave all contaminated material.
- Dispose per institutional and local regulatory requirements.

SECTION 7 — Handling and Storage

Handling: Standard BSL-2 laboratory precautions. Avoid generating dust. Handle inoculated medium in biological safety cabinet. Do not eat, drink, or smoke while handling. Wash hands thoroughly after use. Be aware of reducing properties of sodium thioglycollate — avoid contact with strong oxidising agents.

Storage: Dehydrated powder: 10–30 °C, tightly sealed, dry, original container, protected from moisture, light, humidity. Prepared broth: 15–30 °C in sealed containers, use within 4 weeks. If refrigerated at 2–8 °C, warm to room temperature before use.

SECTION 8 — Exposure Controls / Personal Protection

OEL	No specific Australian WES for this mixture. Sodium thioglycollate — treat as potential skin sensitiser.
Respiratory	P1 dust mask for powder; not required for prepared liquid under normal handling
Eye protection	Safety glasses or goggles — mandatory for clinical and inoculated work
Skin protection	Disposable nitrile gloves; lab coat
Engineering controls	Well-ventilated laboratory; biological safety cabinet for inoculated materials
Hygiene	Wash hands before eating, drinking, leaving laboratory. Change contaminated clothing.



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SECTION 9 — Physical and Chemical Properties

Appearance	Cream to light beige fine powder (dehydrated)
Appearance prepared	Light straw/clear to faintly pink at surface
Odour	Faint characteristic yeast/broth with slight sulfurous note (thioglycollate)
pH (prepared, 25 °C)	7.1 ± 0.2
Solubility	Completely soluble with gentle heating
Moisture	≤ 5.0%
Flammability	Not flammable
Reducing properties	Sodium thioglycollate and L-cystine — react with oxidising agents

SECTION 10 — Stability and Reactivity

Stability	Stable under recommended storage conditions
Conditions to avoid	Moisture, excessive heat (>40 °C), strong oxidising agents, direct light
Incompatible materials	Strong oxidising agents (react with sodium thioglycollate and L-cystine)
Decomposition products	CO, CO ₂ , nitrogen oxides, sulfur oxides on combustion
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 in prepared medium — negligible acute risk.
Skin sensitisation	Sodium thioglycollate may cause sensitisation with repeated exposure — use gloves.
Eye irritation	Mild mechanical irritation from dust



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Respiratory	Dust may cause mild irritation; vapour/fumes from heated medium not expected to be hazardous
Carcinogenicity	No components listed as carcinogens (IARC, NTP, OSHA)
Biological hazard	Inoculated medium may contain pathogenic organisms including potential BSL-2/3 pathogens from clinical specimens

SECTION 12 — Ecological Information

Aquatic toxicity	Sodium thioglycollate harmful to aquatic organisms at high concentrations — prevent large quantities entering waterways
Biodegradability	Organic components readily biodegradable
Bioaccumulation	Not expected to bioaccumulate

SECTION 13 — Disposal Considerations

Uninoculated medium: Dispose as chemical waste per local EPA regulations. Neutralise reducing agents before small-quantity drain disposal.

Inoculated / clinical medium: Autoclave at 121 °C for 30 minutes minimum to inactivate all viable organisms. Treat as BSL-2 biological waste. Follow institutional and local biosafety disposal requirements.

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; protect from extreme temperatures; ensure container integrity

SECTION 15 — Regulatory Information



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WHS Regulations 2011	Mixture not classified as hazardous at use concentrations
Pharmacopoeial use	USP <71>, BP 2023, EP 2.6.1 — validated sterility testing medium
AIIC	All components listed
ARTG / TGA	Not registered as therapeutic good — laboratory use only
Transport	Not classified as dangerous goods (ADG/IATA/IMDG)

SECTION 16 — Other Information

Prepared by	AuSaMicS Pty Ltd — Quality Assurance
Date	March 2026
Version	1.0
GHS version	7th Edition (2017)
Supersedes	All previous versions
Key references	Safe Work Australia; USP <71>; EP 2.6.1; FDA-BAM; ISO 21149

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