⚠ WARNING — THIS PRODUCT CONTAINS CHLORAMPHENICOL (CAS 56-75-7)
GHS Hazard Classification: H351 — Suspected of causing cancer (Category 2)
Handle with appropriate PPE. Avoid skin contact, inhalation of powder dust, and eye contact.
Dispose as chloramphenicol-containing chemical waste. Do NOT dispose to drain.

SECTION 1 — Identification

Product Name	Yeast Glucose Chloramphenicol Agar (YGC Agar)
Catalogue No.	AS-1381
Intended Use	Selective culture medium for isolation and enumeration of yeasts and molds. For laboratory use only. Not for food, pharmaceutical ingredient, medical, or veterinary use.
Supplier	AuSaMicS Pty Ltd | ABN 56 676 640 467
Address	31 Longview CT, Thomastown VIC 3074, Australia
Phone / Email	+61 412 520 598 | support@ausamics.com.au
Emergency	Poisons Information Centre: 13 11 26 (Australia, 24 hr)

SECTION 2 — Hazard Identification

GHS Classification	Carcinogenicity Category 2 (H351 — Suspected of causing cancer) due to chloramphenicol content (CAS 56-75-7, 0.1 g/L). The product as formulated presents low acute risk at intended use concentrations.
Signal Word	WARNING
Hazard Statement	H351: Suspected of causing cancer (chloramphenicol component).
Precautionary Statements	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P280: Wear protective gloves and eye/face protection. P308+P313: If exposed or concerned, get medical advice/attention.
Other Hazards	Combustible dry powder in bulk — keep from ignition sources. No significant flammability hazard at normal laboratory use quantities.

SECTION 3 — Composition / Ingredients

Component	CAS	g/L	GHS Hazard Classification
Glucose (D-Glucose)	50-99-7	20.0	Not classified
Yeast Extract	8013-01-2	5.0	Not classified
Chloramphenicol **	56-75-7	0.1	H351 — Suspected carcinogen (Category 2). May cause blood disorders (aplastic anaemia) with repeated/prolonged exposure.
Agar	9002-18-0	14.9	Not classified

*** Chloramphenicol is the hazardous component. The formulated concentration (0.1 g/L) is the minimum effective selective concentration. Standard laboratory PPE is sufficient for routine use.*

SECTION 4 — First Aid Measures

Route	First Aid Action
Inhalation	Remove to fresh air immediately. If respiratory irritation or symptoms develop, seek medical attention. Inform treating physician of chloramphenicol exposure.
Skin Contact	Remove contaminated clothing immediately. Wash affected area thoroughly with soap and water for at least 15 minutes. Seek medical advice if irritation persists.
Eye Contact	Flush immediately with copious water for at least 15 minutes, lifting upper and lower eyelids. Seek immediate medical attention.
Ingestion	Rinse mouth thoroughly. Do NOT induce vomiting. Seek medical advice. Inform physician of chloramphenicol ingestion.
Note to Physician	Chloramphenicol may cause aplastic anaemia with repeated exposure. Baseline blood count recommended for significant exposures. Monitor haematological parameters.

SECTION 5 — Fire-Fighting Measures

- Not flammable under normal laboratory conditions.
- Combustible dry powder in bulk — keep away from ignition sources.
- Suitable extinguishing media: CO2, dry chemical, foam, water spray.
- Hazardous combustion products: CO2, CO, HCl, NOx (from chloramphenicol decomposition).
- Wear self-contained breathing apparatus (SCBA) if fighting fire involving this product in quantity.

SECTION 6 — Accidental Release Measures

- Wear full PPE (nitrile gloves, safety goggles, lab coat) before cleaning up.
- Avoid generating dust. Dampen powder with water if appropriate before sweeping.
- Collect carefully in sealed, labelled containers. Label as chloramphenicol-containing waste.
- Do NOT allow to enter drains, waterways, or soil. Chloramphenicol may promote antimicrobial resistance in environmental microorganisms.
- Dispose per Section 13 (Disposal) requirements.

SECTION 7 — Handling and Storage

Handling:

- Handle in dedicated laboratory area with local exhaust ventilation (LEV). Avoid dust generation when weighing.
- Wear nitrile gloves (minimum 0.1 mm thickness), safety spectacles or chemical splash goggles, and laboratory coat at all times.
- Wash hands thoroughly after handling. Remove and launder contaminated clothing before reuse.
- Do not eat, drink, or apply cosmetics in the handling area.

Storage:

- Store in a cool, dry location at room temperature (15-25°C), tightly sealed, away from moisture and direct sunlight.
- Protect from UV light — chloramphenicol degrades on prolonged UV exposure.
- Keep away from strong oxidising agents and strong acids or bases.
- Prepared plates: Store at 2-8°C, sealed, protected from light. Use within 2 weeks.
- Shelf life: As stated on label.

SECTION 8 — Exposure Controls / PPE

Protection Type	Requirement
Respiratory	P1 filter mask when handling bulk powder or in dusty conditions. LEV recommended.
Hand Protection	Nitrile gloves, minimum 0.1 mm — chloramphenicol can be absorbed through skin.
Eye / Face Protection	Safety spectacles or chemical splash goggles when handling powder or prepared medium.
Body Protection	Laboratory coat. Closed-toe shoes. Remove contaminated clothing promptly.
Engineering Controls	Local exhaust ventilation (LEV) when weighing or handling powder. General laboratory ventilation.
OEL — Chloramphenicol	No specific Australian WES established. Apply precautionary principle — ALARP (as low as reasonably practicable).

SECTION 9 — Physical and Chemical Properties

Property	Value
Physical Form	Dehydrated powder
Colour (powder)	Beige to light cream
Colour (prepared medium)	Pale amber agar
Odour	Faint characteristic odour
pH (prepared, 25°C)	6.6 +/- 0.2
Dissolution	40 g/L with heating; complete dissolution requires gentle boiling
Flammability	Not flammable (powder combustible in bulk)
Explosive Properties	Not explosive

SECTION 10 — Stability and Reactivity

- Chemically stable under recommended storage conditions.
- Chloramphenicol degrades on prolonged exposure to UV light or under strongly alkaline conditions.
- Conditions to avoid: Excessive heat (>121°C beyond autoclave), prolonged UV exposure, strong acids (pH <3), strong bases (pH >10).
- Incompatible materials: Strong oxidising agents, strong reducing agents.
- Hazardous decomposition products (thermal): CO2, CO, HCl, NOx.

SECTION 11 — Toxicological Information

Toxicological Endpoint	Information
Acute toxicity (oral)	Low acute toxicity as formulated. Chloramphenicol LD50 (rat, oral): 2,500 mg/kg. At 0.1 g/L in the formulation, acute risk is low.
Skin / Eye irritation	Mild skin and eye irritant (powder). Avoid contact — use PPE.
Carcinogenicity	H351 — Chloramphenicol: Suspected human carcinogen (IARC Group 2A). Associated with aplastic anaemia and secondary leukaemia with chronic exposure.

Toxicological Endpoint	Information
Mutagenicity	Chloramphenicol: evidence of genotoxicity in some in vitro assays.
Haematotoxicity	Chloramphenicol: may cause dose-dependent reversible bone marrow suppression and, rarely, idiosyncratic aplastic anaemia in humans. Both effects documented in occupational literature.
Reproductive toxicity	No specific data for formulated product. Chloramphenicol: avoid use during pregnancy (precautionary).

SECTION 12 — Ecological Information

- Chloramphenicol is an antimicrobial agent — environmental release may promote antimicrobial resistance in soil and aquatic microorganisms.
- Avoid discharge to waterways, drains, or soil. Treat as chemical waste.
- Other components (glucose, yeast extract, agar) are biodegradable and present low ecotoxicity risk.

SECTION 13 — Disposal Considerations

- Dispose as chemical waste containing a classified hazardous substance (chloramphenicol, H351).
- Inoculated plates and prepared medium: autoclave at 121°C for 15 minutes before disposal as microbiological waste. Note: autoclaving does not eliminate chloramphenicol — autoclaved material still requires disposal as chemical/chloramphenicol-containing waste.
- Consult VIC EPA and your institutional waste management policy for chloramphenicol-containing waste disposal procedures.
- Do NOT dispose to domestic drain, sewer, or general waste stream.

SECTION 14 — Transport Information

Transport System	Status
ADG (Australia)	Not classified as dangerous goods at formulated concentration
IATA (Air)	Not classified as dangerous goods at formulated concentration
IMDG (Sea)	Not classified as dangerous goods at formulated concentration
UN Number	Not applicable
Special Precautions	Transport in sealed, labelled containers. Protect from moisture and UV light. Label as chloramphenicol-containing material.

SECTION 15 — Regulatory Information

- Australian WHS Regulations 2023 / GHS 7th Edition — classified H351 (chloramphenicol component).
- AICIS (Australian Industrial Chemicals Introduction Scheme) — compliant.
- HS / AHECC Code: 3821.00.00.
- Chloramphenicol is listed as a Schedule 4 (Prescription Only Medicine) substance in the SUSMP — institutional laboratory use is exempt; confirm with your institutional biosafety officer.
- For laboratory use only — not a registered therapeutic good.

SECTION 16 — Other Information

SDS Reference	SDS-AS-1381-YGC

Issue Date	January 2026
Next Review Date	January 2028
Prepared by	Hassan Salimi — Founder & Technical Director, AuSaMicS Pty Ltd

DISCLAIMER: This Safety Data Sheet has been prepared in accordance with Australian WHS Regulations 2023 and GHS 7th Edition. Information is believed accurate at the issue date. AuSaMicS Pty Ltd accepts no liability for errors or omissions. Users must verify suitability for their specific application. This SDS supersedes all previous versions.