

Effective date: 24/09/2026	Hy-Labs Cat. No: PD249 TT233/B	MSDS FORMAT	
Doc. No: MSDS- PD249 / TT233/B		MATERIAL SAFETY DATA SHEET	Replace Doc: NA

1- Product and Company Identification	
Product Name	SDA+CHL.+GENM.
Reference number	PD249 / TT233/B
Identified uses	Selective culture medium (agar plates) for laboratory microbiology use (fungal isolation with antibacterial supplementation). For In-Vitro Diagnostic (IVD) use only. Not for human or animal consumption.
Manufacturer	Hy-Laboratories Ltd. Park Tamar, Rehovot, 76326, Israel Tel: 972-8-9366475 Fax: 972-8-9366474
2- HAZARDS IDENTIFICATION	
GHS Classification (Regulation (EC) No 1272/2008 / GHS): The finished, prepared agar plate is not classified as a hazardous mixture under GHS/CLP - all hazardous raw material components are present well below the standard GHS concentration cut-offs for classification (see Section 3 for details and calculations). Label elements: No signal word, hazard pictogram, or hazard statement required for the finished product. Special note - Chloramphenicol: One raw material used in preparing this medium, chloramphenicol, is classified as a Category 2 carcinogen and reproductive toxicant, and causes serious eye damage in its concentrated form. Although present in the finished agar at only ~0.03% w/v (below classification thresholds), chloramphenicol has a recognized, rare but serious risk of blood dyscrasias (including aplastic anemia) in sensitive individuals, which is not strictly dose-dependent. The product also contains approximately 0.6% v/v ethanol from the chloramphenicol stock. Handle with care as noted in Sections 4, 8, and 11. Other hazards: The finished product is a solid agar medium (not a flammable liquid), despite one raw material (ethanol) being flammable in its concentrated form. Inoculated plates may contain viable pathogenic microorganisms and must be treated as potentially infectious biological material.	
3- COMPOSITION/INFORMATION ON INGREDIENTS	
This product is a solid (agar) culture medium in plates, prepared from the following components: 1) Sabouraud Dextrose Agar (SDA) - BD Difco Catalogue No.: 210930 Description: Complex mixture (peptones, dextrose, agar) Concentration: 65 g/L Classification: Not classified as hazardous (GHS/CLP) 2) Gentamicin Solution, 50 mg/mL Gentamicin - HiMedia Catalogue No.: A005 Active substance: Gentamicin sulfate; CAS No.: 1405-41-0; EC No.: 215-778-9 Classification (concentrate/active substance): Skin Sens. 1 (H317), Resp. Sens. 1 (H334), Eye Irrit. 2 (H319); some suppliers additionally list Repr. 1B/2 (H360/H361) and STOT RE 1 (H372) for gentamicin sulfate Added: 2 mL/L (50 mg/mL solution) -> Final gentamicin concentration in agar: approx. 100 mg/L (0.01% w/v) Note: Final concentration is well below standard GHS generic concentration cut-offs (typically 1%) for skin/respiratory sensitization classification of the mixture. 3) Chloramphenicol Solution, 2.5% (2.5 g/100 mL), prepared from: - Chloramphenicol - Sigma, Catalogue No.: C0378; CAS No.: 56-75-7; EC No.: 200-432-1 Classification (concentrate): Danger - Carc. 2 (H351 - Suspected of causing cancer), Repr. 2 (H361fd - Suspected of damaging fertility/the unborn child), Eye Dam. 1 (H318 - Causes serious eye damage)	
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- Ethanol Absolute (Alcohol Absolute) - Merck, Catalogue No.: 983; CAS No.: 64-17-5; EC No.: 200-578-6 (used as 50% v/v solvent for the chloramphenicol stock solution)

Classification (concentrate): Danger - Flam. Liq. 2 (H225 - Highly flammable liquid and vapour), Eye Irrit. 2 (H319 - Causes serious eye irritation)

Final concentrations in agar: Chloramphenicol approx. 0.3 g/L (0.03% w/v); Ethanol approx. 6 mL/L (0.6% v/v)

Note: Both final concentrations are well below standard GHS generic concentration cut-offs for classification of the mixture (e.g., approx. 0.1% for Carc. 2, approx. 0.3% for Repr. 2, approx. 3% for Eye Dam. 1, and flammability is not applicable to a solid, largely aqueous, low-ethanol-content agar medium).

4) Water (purified/deionized) - solvent/diluent, balance to volume

4- First Aid Measures

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Seek medical/ophthalmological attention, particularly given the eye-damage potential of concentrated raw materials (chloramphenicol, ethanol) used in manufacture.

Skin contact: Wash with plenty of water and soap. If irritation, rash, or an allergic reaction develops (possible with gentamicin exposure), seek medical attention.

Inhalation: Not an expected route of exposure for a solid agar medium. If dust from the dehydrated SDA base is inhaled and irritation occurs, remove to fresh air; gentamicin may cause allergy/asthma-like symptoms in sensitized individuals - seek medical advice if breathing difficulty occurs.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical advice, showing this Safety Data Sheet to the treating physician, given the chloramphenicol content.

Note to physician: Treat symptomatically. Because this product is manufactured using chloramphenicol (associated with rare, serious blood dyscrasias including aplastic anemia) and gentamicin (a sensitizer/potential ototoxic-nephrotoxic agent in concentrate), consider these substances if a patient reports a significant exposure incident, notwithstanding their low concentration in the finished product.

For inoculated plates, follow the laboratory biological exposure procedure.

5- Fire Fighting Measures

The finished, prepared product is a solid agar medium with a low residual ethanol content (~0.6% v/v) and is not flammable or readily combustible under normal conditions.

Suitable extinguishing media: Use extinguishing media appropriate to the surrounding fire (water spray/fog, CO2, dry chemical, foam).

Unsuitable extinguishing media: None known.

Specific hazards: None known for the finished product. The raw material ethanol absolute is a highly flammable liquid (Flam. Liq. 2) in its concentrated form but is present only as a minor residual solvent in the finished medium.

Special protective equipment for firefighters: Use self-contained breathing apparatus and full protective equipment for fires involving surrounding materials.

Combustion may generate irritating or hazardous fumes.

Firefighters should use appropriate protective equipment and respiratory protection where required.

6- Accidental Release Measures

Personal precautions: Ensure adequate ventilation. Avoid contact with eyes, skin, and mucous membranes. Wear standard laboratory PPE (gloves, lab coat, eye protection). For broken or spilled inoculated plates, treat material as potentially infectious. Collect into suitable biological-waste containers and disinfect contaminated surfaces using a validated laboratory disinfectant.

Environmental precautions: Prevent spilled/broken plate material from entering drains, waterways, or soil.

Methods for containment and cleanup: Wearing appropriate PPE, collect broken plates/spilled agar using a scoop or absorbent material; avoid generating aerosols/dust. Wipe the affected surface with a suitable disinfectant, then rinse with water. Dispose of waste as described in Section 13.

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7- Handling and Storage

Handling: Handle using standard microbiological/good laboratory practice. Avoid contact with eyes, skin, and mucous membranes. Do not ingest. Wash hands after handling. Avoid generating dust or aerosols.

Storage: Store prepared plates tightly sealed/bagged, inverted, protected from excessive heat, freezing, drying and direct light, as indicated on the product label/certificate of analysis. Typically stored refrigerated (2-8°C) until the labeled expiry date; avoid freezing.

Do not use plates showing contamination, cracking, leakage or excessive dehydration, or discoloration inconsistent with expected appearance.

Inoculated plates must be handled as potentially infectious material.

8- Exposure Controls, Personal Protection

Occupational exposure limits: No specific occupational exposure limits (OEL/TLV) have been established for this finished product. Individuals with known sensitivity/allergy to aminoglycoside antibiotics (e.g., gentamicin) or chloramphenicol should exercise particular caution.

Engineering controls: Handle in a well-ventilated area. Use of a biological safety cabinet is recommended when working with inoculated plates or unknown/pathogenic cultures, per your laboratory's risk assessment.

Personal protective equipment:

Eye protection: Safety glasses recommended.

Skin protection: Laboratory coat and disposable gloves recommended.

Respiratory protection: Not normally required for handling sealed/solid media under normal conditions of use; avoid inhaling dust from broken plates.

No specific occupational exposure limit is established for the finished mixture.

9- Physical and Chemical Properties

Appearance: Solid agar medium in plates; pale yellow/ beige color (SDA base)

Odor: Faint characteristic odor; slight residual alcohol odor possible

pH: Approx. 5.6 ± 0.2 (typical for Sabouraud Dextrose Agar)

Melting/Softening point: Agar gel liquefies on heating to approx. 85-95°C; sets/gels below approx. 40°C

Flammability: Not flammable (solid, predominantly aqueous gel with only minor residual ethanol)

Solubility: Water-based agar medium (solid gel matrix)

Flash point: Not applicable.

Explosive/oxidizing properties: Not expected.

10- Stability and Reactivity

Chemical stability: Stable under normal conditions of storage (refrigerated, protected from light) until the labeled expiry date. Chloramphenicol and gentamicin potency may gradually decline with prolonged storage or light exposure.

Possibility of hazardous reactions: None known under normal use. No hazardous polymerization is expected.

Conditions to avoid: Freezing, excessive heat, prolonged light exposure, and microbial contamination during storage.

Incompatible materials: Strong oxidizing agents, strong acids/bases (relevant to raw material handling; not applicable to the finished, prepared medium under normal use).

Hazardous decomposition products: None expected under normal conditions of use and storage. Thermal decomposition may produce carbon oxides, nitrogen oxides and other irritating decomposition products.

11- Toxicological Information

Acute toxicity: The finished product is a low-hazard laboratory culture medium; all antimicrobial/solvent components are present at concentrations well below levels of acute toxicological concern.

Chloramphenicol (raw material, concentrate): Carc. 2 (suspected human carcinogen), Repr. 2 (suspected reproductive toxicant), causes serious eye damage. Independent of dose, rare idiosyncratic blood dyscrasias

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(including aplastic anemia) have historically been associated with chloramphenicol exposure in susceptible individuals; avoid unnecessary contact.

Gentamicin (raw material, concentrate): Skin and respiratory sensitizer; may cause allergic reactions in sensitized individuals; ototoxic/nephrotoxic potential is associated with systemic therapeutic exposure, not with the trace amounts present in this laboratory medium.

Ethanol (raw material, concentrate): Causes eye irritation; low acute oral toxicity (rat oral LD50 approx. 6200-7000 mg/kg).

Skin/eye irritation, sensitization (finished product): Not expected to be significantly irritating or sensitizing at the concentrations present in the finished agar under normal use; individuals with known antibiotic allergies should exercise caution.

The principal hazard of an inoculated plate is biological and depends on the organism cultured.

12- Ecological Information

Ecotoxicity: The finished product contains low concentrations of antimicrobial agents (gentamicin, chloramphenicol); avoid unnecessary release to the environment. Concentrated gentamicin sulfate is classified as very toxic to aquatic life (Aquatic Acute 1/Chronic 1) by some suppliers, but is present in this product only in trace amounts.

Persistence and degradability: The agar/peptone base is expected to be biodegradable; data on the environmental fate of trace antibiotic residues in used media is limited.

Bioaccumulative potential: Not expected to bioaccumulate at the concentrations present.

Other adverse effects: Dispose of used/inoculated media appropriately (see Section 13) to avoid release of antibiotic residues or cultured microorganisms into the environment.

Prevent significant quantities from entering drains or natural waterways.

13- Disposal Information

This product may contain or support the growth of microorganisms after use/inoculation and should be treated as biohazardous (biological) waste; it also contains antibiotic residues (chloramphenicol, gentamicin). Autoclave (or otherwise appropriately disinfect/inactivate) used/inoculated plates prior to disposal, in accordance with your institution's biosafety procedures and applicable local, national, and international regulations. Do not discharge antibiotic-containing waste directly to drains.

Unused/unopened product may be disposed of as general laboratory waste in accordance with local regulations, unless local rules require antibiotic-containing waste to be handled separately.

Dispose of contents/container in accordance with applicable local, national, and international regulations.

14- Transport Information

Not classified as a dangerous good for transport by road (ADR), rail (RID), sea (IMDG), or air (IATA/ICAO) when unused and unopened.

UN Number: Not applicable

UN Proper Shipping Name: Not applicable

Transport Hazard Class(es): Not applicable

Packing Group: Not applicable

Environmental hazards: No

Special precautions: If shipping used/inoculated plates containing cultured microorganisms, applicable biological/infectious substance transport regulations (e.g., UN3373 Biological Substance, Category B, where relevant) may apply - assess based on the specific organism(s) present.

15- Regulatory Information

The finished product is not classified as hazardous under Regulation (EC) No 1272/2008 (CLP) / GHS; all hazardous raw materials are present below standard mixture-classification concentration cut-offs.

Raw material hazard classifications (concentrate): Chloramphenicol - Carc. 2 (H351), Repr. 2 (H361fd), Eye Dam. 1 (H318); Ethanol absolute - Flam. Liq. 2 (H225), Eye Irrit. 2 (H319); Gentamicin sulfate - Skin Sens. 1 (H317), Resp.

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Sens. 1 (H334), Eye Irrit. 2 (H319) (classification may vary slightly by supplier).
Some jurisdictions maintain specific occupational or environmental controls for antibiotics and CMR (carcinogenic/mutagenic/reprotoxic) substances irrespective of dilution in a finished laboratory product; consult your local EHS/regulatory function regarding any such requirements applicable to compounding or handling this medium.
For In-Vitro Diagnostic (IVD)/laboratory use only - ensure compliance with applicable local IVD and biosafety regulatory requirements in addition to this chemical/biological safety data sheet.
Users are responsible for determining any additional applicable regulations for their jurisdiction and intended use.

16- Other Information

For In-Vitro use only.

Disclaimer

The information contained in this Safety Data Sheet is believed to be accurate based on the current knowledge of the product and its components. It is intended solely as guidance for the safe handling, storage, use, transport, and disposal of the product and should not be considered a warranty or quality specification. Users are responsible for ensuring compliance with applicable local, national, and international regulations.