



# SDS

## SDS-AS-1188

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## SAFETY DATA SHEET

*Czapek Dox Agar | Catalog No. AS-1188*

Prepared in accordance with GHS classification and labelling requirements (Australian regulatory format, Safe Work Australia)

### Section 1: Identification

|                             |                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------|
| <b>Product Name</b>         | Czapek Dox Agar                                                                    |
| <b>Catalog Number</b>       | AS-1188                                                                            |
| <b>Synonyms</b>             | Czapek's Agar, CZA, Czapek-Dox Medium, Czapek Solution Agar                        |
| <b>Recommended Use</b>      | Laboratory culture medium for cultivation of fungi (research and education)        |
| <b>Uses Advised Against</b> | Diagnostic, therapeutic, human, or animal use                                      |
| <b>Manufacturer</b>         | AuSaMicS Pty Ltd, Melbourne, Victoria, Australia                                   |
| <b>Emergency Telephone</b>  | Refer to company contact details / Poisons Information Centre 13 11 26 (Australia) |

### Section 2: Hazard(s) Identification

Classification: This dehydrated culture medium is not classified as hazardous according to GHS criteria based on the properties of its individual components at the concentrations present. The dry powder may cause mechanical/dust irritation to eyes, skin, and the respiratory tract on direct or prolonged exposure. The medium presents no chemical hazard once prepared and sterilised, but becomes a potential biological hazard after inoculation and incubation with microorganisms — standard microbiological biosafety practices apply at that stage.



- Signal Word: Warning (dust irritation potential only; confirm against current supplier SDS for individual raw materials)
- Hazard Statements: May cause mild eye, skin, or respiratory irritation from dust (dehydrated powder form)
- Precautionary Statements: Avoid generating dust; wash hands after handling; wear eye protection when weighing powder

## Section 3: Composition / Information on Ingredients

| Component             | Function             | Approx. Concentration |
|-----------------------|----------------------|-----------------------|
| Sucrose               | Carbon source        | Major component       |
| Sodium nitrate        | Nitrogen source      | Minor component       |
| Dipotassium phosphate | Buffering agent      | Minor component       |
| Magnesium sulfate     | Essential ion source | Trace                 |
| Potassium chloride    | Essential ion source | Trace                 |
| Ferrous sulfate       | Trace metal source   | Trace                 |
| Agar                  | Solidifying agent    | Major component       |

## Section 4: First-Aid Measures

- Eye contact: Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
- Skin contact: Wash with soap and water.
- Inhalation: Remove to fresh air if dust is inhaled during weighing/handling.
- Ingestion: Rinse mouth with water. Seek medical attention if discomfort occurs.

## Section 5: Fire-Fighting Measures

- Suitable extinguishing media: Water spray, dry chemical, carbon dioxide, foam
- Unsuitable media: None known
- Hazardous combustion products: Oxides of carbon and nitrogen

## Section 6: Accidental Release Measures

- Personal precautions: Avoid dust formation; wear appropriate PPE
- Environmental precautions: Avoid release to waterways
- Containment/clean-up: Sweep or vacuum spilled powder; avoid generating dust; if the medium has been inoculated and incubated, treat as biological waste and autoclave before disposal

## Section 7: Handling & Storage

- Handling: Weigh dehydrated powder with adequate ventilation; avoid dust formation; use aseptic technique after preparation and sterilisation

- Storage (dehydrated): Store at 15–25°C, dry, protected from moisture, tightly closed
- Storage (prepared): Store at 2–8°C; prevent dehydration; discard if contaminated or discoloured

## Section 8: Exposure Controls / Personal Protection

- Exposure limits: No specific workplace exposure standard established for this product in Australia; apply general nuisance-dust controls
- Engineering controls: Local exhaust ventilation recommended when weighing dehydrated powder
- PPE: Safety glasses, gloves, and dust mask recommended during powder handling; standard aseptic PPE (gloves, lab coat) during inoculation work

## Section 9: Physical & Chemical Properties

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| <b>Appearance (dehydrated)</b> | White to cream, free-flowing powder           |
| <b>Appearance (prepared)</b>   | Light amber, clear to slightly opalescent gel |
| <b>Odour</b>                   | Faint, characteristic                         |
| <b>Final pH (25°C)</b>         | 7.3 ± 0.2                                     |
| <b>Solubility</b>              | Disperses/dissolves in water on heating       |

## Section 10: Stability & Reactivity

- Chemical stability: Stable under recommended storage conditions
- Incompatible materials: Strong oxidising agents
- Hazardous decomposition products: Oxides of carbon and nitrogen upon combustion

## Section 11: Toxicological Information

The individual components of this medium (sucrose, sodium nitrate, mineral salts, agar) are common laboratory and food-grade materials with low acute toxicity. Not classified as a carcinogen, mutagen, or reproductive toxicant based on available data for the formulation as supplied. Once inoculated and incubated, the prepared medium may support the growth of microorganisms and should be handled according to the biosafety level applicable to the organisms cultured.

## Section 12: Ecological Information

- Persistence/degradability: Components are generally biodegradable

- Bioaccumulation: Not expected to bioaccumulate
- Aquatic toxicity: Low hazard expected from unused medium; avoid unnecessary release of inoculated cultures to the environment

## Section 13: Disposal Considerations

Dispose of unused dehydrated medium in accordance with local, state, and federal (Australian) regulations. Inoculated/used prepared medium must be autoclaved or otherwise inactivated before disposal, consistent with the biosafety level of the organisms cultured, and disposed of via a licensed biological waste contractor where applicable.

## Section 14: Transport Information

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| <b>UN Number</b>              | Not regulated as a dangerous good for transport |
| <b>Proper Shipping Name</b>   | Not applicable                                  |
| <b>Transport Hazard Class</b> | Not applicable                                  |
| <b>Packing Group</b>          | Not applicable                                  |

## Section 15: Regulatory Information

Components are common laboratory and food-grade materials listed on the Australian Inventory of Industrial Chemicals (AIIC) where applicable. Classified and labelled in accordance with the Globally Harmonized System (GHS) as adopted under the Work Health and Safety (WHS) Regulations. Users working with cultured microorganisms must additionally comply with applicable biosafety and biosecurity regulations for the organisms studied.

## Section 16: Other Information

This Safety Data Sheet has been prepared by AuSaMicS Pty Ltd based on currently available data for the unused, dehydrated medium and is believed to be accurate as of the date of issue. It does not address the biosafety requirements of specific microorganisms cultured on this medium, which remain the responsibility of the end user and their institutional biosafety committee.

*Revision: 1.0*

*This Safety Data Sheet is provided as a general reference summary and reflects information believed to be accurate at the time of preparation. AuSaMicS Pty Ltd makes no warranty, express or implied, regarding its completeness or accuracy for any particular use. Users must independently verify regulatory and biosafety compliance applicable to their jurisdiction, institution, and the specific organisms cultured before use.*