



# SAFETY DATA SHEET

This safety data sheet complies with the requirements of:  
SS586: 2008 (2014)

Revision date 24-May-2024

Revision Number 2.2

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### Product identifier

**Product Name** MacConkey agar +Crystal violet, 20 x 90 mm Plates

### Other means of identification

**Catalogue Number(s)** 63617, 3563617

**Pure substance/mixture** Mixture

### Recommended use of the chemical and restrictions on use

**Recommended use** Restricted to professional users  
In vitro diagnostic

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### Corporate Headquarters

Bio-Rad Laboratories Inc.  
1000 Alfred Nobel Drive  
Hercules, CA 94547  
USA

#### Manufacturer

Bio-Rad  
3 boulevard Raymond Poincaré  
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e-mail: fds-msds.fr@bio-rad.com

#### Legal Entity / Contact Address

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Singapore 609935

For further information, please contact

**Technical Service** 6424 0262  
ctssingapore@bio-rad.com

### Emergency telephone number

**24 Hour Emergency Phone Number** CHEMTREC Singapore: 65-31581349

## SECTION 2: Hazards identification

### GHS Classification

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS): SS586: 2008 (2014)

### Label elements

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS): SS586: 2008 (2014)

### Other hazards which do not result in classification

## SECTION 3: Composition/information on ingredients

**Substance**

Not applicable

**Mixture**

The product contains no substances which at their given concentration, are considered to be hazardous to health

Non-hazardous  
ingredients

Proprietary

Balance

**SECTION 4: First aid measures****Description of first aid measures**

|                       |                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b> | No hazards which require special first aid measures.                                                              |
| <b>Inhalation</b>     | Remove to fresh air.                                                                                              |
| <b>Eye contact</b>    | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor. |
| <b>Skin contact</b>   | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.                 |
| <b>Ingestion</b>      | Rinse mouth thoroughly with water.                                                                                |

**Most important symptoms and effects, both acute and delayed**

|                 |                           |
|-----------------|---------------------------|
| <b>Symptoms</b> | No information available. |
|-----------------|---------------------------|

**For emergency responders**

|                                           |                           |
|-------------------------------------------|---------------------------|
| <b>Self-protection of the first aider</b> | No information available. |
|-------------------------------------------|---------------------------|

**Indication of any immediate medical attention and special treatment needed**

|                        |                        |
|------------------------|------------------------|
| <b>Note to doctors</b> | Treat symptomatically. |
|------------------------|------------------------|

**SECTION 5: Firefighting measures****Suitable Extinguishing Media**

|                                     |                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b> | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|

|                                       |                           |
|---------------------------------------|---------------------------|
| <b>Unsuitable extinguishing media</b> | No information available. |
|---------------------------------------|---------------------------|

**Specific hazards arising from the chemical**

|                                                   |             |
|---------------------------------------------------|-------------|
| <b>Specific hazards arising from the chemical</b> | None known. |
|---------------------------------------------------|-------------|

**Special protective actions for fire-fighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

### Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labelled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

## SECTION 8: Exposure controls/personal protection

### Control parameters

**Occupational exposure limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

|                                        |                                                                                                                                                                          |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye/face protection</b>             | Wear safety glasses with side shields (or goggles).                                                                                                                      |
| <b>Skin and body protection</b>        | Wear suitable protective clothing.                                                                                                                                       |
| <b>Hand protection</b>                 | Wear suitable gloves.                                                                                                                                                    |
| <b>Respiratory protection</b>          | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| <b>Environmental exposure controls</b> | No information available.                                                                                                                                                |

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

|                        |                          |
|------------------------|--------------------------|
| <b>Physical state</b>  | Solid                    |
| <b>Appearance</b>      | solid                    |
| <b>Colour</b>          | violet                   |
| <b>Odour</b>           | Characteristic.          |
| <b>Odour threshold</b> | No information available |

| <b>Property</b>                                | <b>Values</b>      | <b>Remarks • Method</b> |
|------------------------------------------------|--------------------|-------------------------|
| <b>pH</b>                                      |                    |                         |
| <b>Melting point / freezing point</b>          | No data available  | None known              |
| <b>Initial boiling point and boiling range</b> | No data available  | None known              |
| <b>Flash point</b>                             | No data available  | None known              |
| <b>Evaporation rate</b>                        | No data available  | None known              |
| <b>Flammability</b>                            | No data available  | None known              |
| <b>Flammability Limit in Air</b>               |                    | None known              |
| <b>Upper flammability or explosive limits</b>  | No data available  |                         |
| <b>Lower flammability or explosive limits</b>  | No data available  |                         |
| <b>Vapour pressure</b>                         | No data available  | None known              |
| <b>Relative vapour density</b>                 | No data available  | None known              |
| <b>Relative density</b>                        | No data available  | None known              |
| <b>Water solubility</b>                        | Insoluble in water |                         |
| <b>Solubility(ies)</b>                         | No data available  | None known              |
| <b>Partition coefficient</b>                   | No data available  | None known              |
| <b>Autoignition temperature</b>                | No data available  | None known              |
| <b>Decomposition temperature</b>               |                    | None known              |
| <b>Kinematic viscosity</b>                     | No data available  | None known              |
| <b>Dynamic viscosity</b>                       | No data available  | None known              |

**Other information** No information available

**SECTION 10: Stability and reactivity****Reactivity**

**Reactivity** No information available.

**Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Possibility of hazardous reactions** None under normal processing.

**Conditions to avoid**

**Conditions to avoid** None known based on information supplied.

**Incompatible materials**

**Incompatible materials** None known based on information supplied.

**Hazardous decomposition products**

**Hazardous decomposition products** None known based on information supplied.

## SECTION 11: Toxicological information

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Acute toxicity**

**Numerical measures of toxicity**

No information available

**The following values are calculated based on chapter 3.1 of the GHS document**

**ATEmix (oral)** 247,913.20 mg/kg

| Chemical name       | Oral LD50            | Dermal LD50              | Inhalation LC50       |
|---------------------|----------------------|--------------------------|-----------------------|
| Water               | > 90 mL/kg ( Rat )   |                          |                       |
| Agar                | = 11 g/kg ( Rat )    |                          |                       |
| Carrageenan         | = 5400 mg/kg ( Rat ) |                          |                       |
| .beta.-D-Lactose    | > 10 g/kg ( Rat )    |                          |                       |
| Sodium chloride     | = 3550 mg/kg ( Rat ) | > 10000 mg/kg ( Rabbit ) | > 42 mg/L ( Rat ) 1 h |
| Polyethylene glycol | = 22 g/kg ( Rat )    | > 20 g/kg ( Rabbit )     |                       |

|                     |                     |  |                         |
|---------------------|---------------------|--|-------------------------|
| L-Tryptophan        | > 16 g/kg ( Rat )   |  | > 5.75 mg/L ( Rat ) 4 h |
| C.I. Basic Violet 3 | = 420 mg/kg ( Rat ) |  |                         |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                                          |                                                                   |
|------------------------------------------|-------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>         | Based on available data, the classification criteria are not met. |
| <b>Serious eye damage/eye irritation</b> | Based on available data, the classification criteria are not met. |
| <b>Respiratory or skin sensitisation</b> | Based on available data, the classification criteria are not met. |
| <b>Germ cell mutagenicity</b>            | Based on available data, the classification criteria are not met. |
| <b>Carcinogenicity</b>                   | Based on available data, the classification criteria are not met. |
| <b>Reproductive toxicity</b>             | Based on available data, the classification criteria are not met. |
| <b>STOT - single exposure</b>            | Based on available data, the classification criteria are not met. |
| <b>STOT - repeated exposure</b>          | Based on available data, the classification criteria are not met. |
| <b>Aspiration hazard</b>                 | Classification not possible.                                      |

**SECTION 12: Ecological information****Ecotoxicity**

|                                 |                                                                            |
|---------------------------------|----------------------------------------------------------------------------|
| <b>Ecotoxicity</b>              | The environmental impact of this product has not been fully investigated.  |
| <b>Unknown aquatic toxicity</b> | Contains 0 % of components with unknown hazards to the aquatic environment |

**Persistence and degradability**

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Persistence and degradability</b> | No information available. |
|--------------------------------------|---------------------------|

**Bioaccumulative potential**

|                        |                                    |
|------------------------|------------------------------------|
| <b>Bioaccumulation</b> | There is no data for this product. |
|------------------------|------------------------------------|

**Mobility**

|                                |                           |
|--------------------------------|---------------------------|
| <b>Mobility in soil</b>        | No information available. |
| <b>PBT and vPvB assessment</b> | No information available  |

**Other adverse effects**

|                              |                          |
|------------------------------|--------------------------|
| <b>Other adverse effects</b> | No information available |
|------------------------------|--------------------------|

**SECTION 13: Disposal considerations****Disposal methods**

**Waste from residues/unused products**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging**

Do not reuse empty containers.

**SECTION 14: Transport information****ADR**

Not regulated

**IMDG**

Not regulated

Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available

**IATA**

Not regulated

**SECTION 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****Singapore****Environmental Public Health Act**

Dispose of waste product or used containers according to local regulations.

**Hazardous Waste (Control of Export, Import and Transit) Act**

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Take note that wastes may be subject to export, import, or transit controls pursuant to the Basel convention and/or local regulations implementing the Basel convention.

**Poison**

None Listed

**Workplace Safety and Health Act**

Comply with the health and safety at work laws.

**International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**International Inventories**

Contact supplier for inventory compliance status

**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet**

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

|                |                                                    |             |                                                      |
|----------------|----------------------------------------------------|-------------|------------------------------------------------------|
| TWA<br>Ceiling | TWA (time-weighted average)<br>Maximum limit value | STEL<br>Sk* | STEL (Short Term Exposure Limit)<br>Skin designation |
|----------------|----------------------------------------------------|-------------|------------------------------------------------------|

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
Environmental Protection Agency  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

**Label elements**

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| <b>Issuing Date</b>  | Bio-Rad Laboratories, Environmental Health and Safety    |
| <b>Revision date</b> | 24-May-2024                                              |
| <b>Revision Note</b> | Significant changes throughout SDS. Review all sections. |

**This safety data sheet complies with the requirements of: SS586: 2008 (2014)**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**