



# SAFETY DATA SHEET

Revision date 17-Feb-2022

Revision Number 1

## 1. Identification

### Product identifier

**Product Name** Antiserum Escherichia coli MONOVALENT O86 (3 mL)

### Other means of identification

**Catalog Number(s)** 57231

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

**Recommended use** Restricted to professional users  
In-vitro laboratory reagent or component\*\*\*

**Restrictions on use** 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 Address

Bio-Rad  
3 boulevard Raymond Poincaré  
92430 Marnes-la-Coquette  
France  
e-mail: fds-msds.fr@bio-rad.com\*\*\*

#### Legal Entity / Contact Address

Bio-Rad Laboratories (Canada) Ltd.  
2403 Guenette  
Montreal, Quebec H4R 2E9  
Canada\*\*\*

**Technical Service** 1-800-361-1808  
CSD\_Techsupport@bio-rad.com\*\*\*

### Emergency telephone number

**24 Hour Emergency Phone Number** CHEMTREC Canada:1 (800) 424-9300\*\*\*

## 2. Hazard(s) identification

### Classification

Not classified\*\*\*

### Label elements

### **Hazard statements**

Not classified.\*\*\*  
\*\*\*

### Other information

Contains animal source material. (rabbit).\*\*\*

### 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\*\*\*

### 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.<br>Consult a physician. |
| <b>Skin contact</b>   | Wash skin with soap and water.  |
| <b>Ingestion</b>      | Rinse mouth thoroughly with water.  |

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

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

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

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

### 5. Fire-fighting measures

|   |  |
|---|--|
| <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.  |
| <b>Specific hazards arising from the chemical</b>     | None known.  |
| <b>Explosion data</b>                                 |  |
| <b>Sensitivity to mechanical impact</b>               | None.  |
| <b>Sensitivity to static discharge</b>                | None.  |
| <b>Special protective equipment for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** See section 8 for more 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 labeled containers.

## **7. Handling and storage**

#### **Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

#### **Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Store according to product and label instructions.\*\*\*

## **8. Exposure controls/personal protection**

#### **Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure 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**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

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

## **9. Physical and chemical properties**

#### **Information on basic physical and chemical properties**

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid***                |
| <b>Appearance</b>     | Liquid***                |
| <b>Color</b>          | colorless***             |
| <b>Odor</b>           | Low***                   |
| <b>Odor threshold</b> | No information available |

| <u>Property</u>                        | <u>Values</u>        | <u>Remarks • Method</u> |
|--|----------------------|-------------------------|
| pH                                     |                      | None known              |
| Melting point / freezing point         | No data available    | None known              |
| Boiling point / boiling range          | No data available    | None known              |
| Flash point                            | No data available    | None known              |
| Evaporation rate                       | No data available    | None known              |
| Flammability (solid, gas)              | No data available    | None known              |
| Flammability Limit in Air              |                      | None known              |
| Upper flammability or explosive limits | No data available    |                         |
| Lower flammability or explosive limits | No data available    |                         |
| Vapor pressure                         | No data available    | None known              |
| Vapor density                          | No data available    | None known              |
| Relative density                       | No data available    | None known              |
| Water solubility                       | Miscible in water*** | ***                     |
| Solubility in other solvents           | No data available    | None known              |
| Partition coefficient                  | No data available    | None known              |
| Autoignition temperature               | No data available    | None known              |
| Decomposition temperature              |                      | None known              |
| Kinematic viscosity                    | No data available    | None known              |
| Dynamic viscosity                      | No data available    | None known              |
| <u>Other information</u>               |                      |                         |
| Explosive properties                   | Not applicable.      |                         |
| Oxidizing properties                   | Not applicable.      |                         |
| Softening point                        | Not applicable       |                         |
| Molecular weight                       | Not applicable       |                         |
| VOC Content (%)                        | Not applicable       |                         |

## 10. Stability and reactivity

|                                    |  |
|------------------------------------|--|
| Reactivity                         | No information available.  |
| Chemical stability                 | Stable under normal conditions.  |
| Possibility of hazardous reactions | Avoid contact with metals. This product contains sodium azide. Sodium azide can react with copper, brass, lead, and solder in piping systems to form explosive compounds and toxic gases.*** |
| Conditions to avoid                | None known based on information supplied.  |
| Incompatible materials             | Metals.***   |
| Hazardous decomposition products   | None known based on information supplied.  |

## 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**

\*\*\*

**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 sensitization</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>                 | Based on available data, the classification criteria are not met. |

## 12. Ecological information

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Ecotoxicity</b>                   | ***                       |
| <b>Persistence and degradability</b> | No information available. |
| <b>Bioaccumulation</b>               | No information available. |
| <b>Other adverse effects</b>         | No information available. |

## 13. Disposal considerations

**Waste treatment methods**

|  |   |
|--|---|
| <b>Waste from residues/unused products</b> | Flush pipes with water frequently if discarding solutions containing sodium azide into metal piping systems. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.*** |
| <b>Contaminated packaging</b>              | Do not reuse empty containers.  |

## 14. Transport information

|                    |                  |
|--------------------|------------------|
| <b><u>TDG</u></b>  | Not regulated*** |
| <b><u>DOT</u></b>  | Not regulated    |
| <b><u>MEX</u></b>  | Not regulated*** |
| <b><u>IATA</u></b> | Not regulated*** |
| <b><u>IMDG</u></b> | Not regulated*** |

## 15. Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 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

## 16. Other information

|                    |                         |                       |                           |   |
|--------------------|-------------------------|-----------------------|---------------------------|---|
| <b><u>NFPA</u></b> | <b>Health hazards</b> 0 | <b>Flammability</b> 0 | <b>Instability</b> 0      | <b>Physical and chemical properties -</b> |
| <b><u>HMIS</u></b> | <b>Health hazards</b> 0 | <b>Flammability</b> 0 | <b>Physical hazards</b> 0 | <b>Personal protection</b> X              |

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | 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)  
 EPA (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  
 Australia 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)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

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**Revision date** 17-Feb-2022

**Revision Note** Significant changes throughout SDS. Review all sections.

**Disclaimer**

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**End of Safety Data Sheet**