

SAFETY DATA SHEET

BIO-RAD

Revision date 24-Jan-2023

Revision Number 1.2

1. Identification

Product Identifier

Agarose, Molecular Biology Certified

Other means of identification

Catalog Number(s) 1613116

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

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 Laboratories, Life Science Group
2000 Alfred Nobel Drive
Hercules, California 94547
USA

Legal Entity/ Contact Address
Bio-Rad Laboratories
Life Science
2000 Alfred Nobel Drive
Hercules, California 94547

Technical Service

1-800-424-6723
support@bio-rad.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC USA 1 (800) 424-9300

2. Hazard(s) identification

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Appearance Powder

Physical state Solid

Odor Odorless

Other information
No information available.

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3. Composition/information on ingredients

Substance

Chemical name	CAS No	Weight-%	Trade secret
Agarose	9012-96-6	50 - 100	

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. First-aid measures

Description of first-aid measures

Inhalation

Remove to fresh air

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact

Wash skin with soap and water.

Ingestion

Rinse mouth

Most important symptoms and effects, both acute and delayed

Symptoms No information available

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to mechanical impact None

Sensitivity to static discharge None

Special protective equipment and precautions for fire-fighters

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 Ensure adequate ventilation

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 Handle in accordance with good industrial hygiene and safety practice.
- Advice on safe handling
- Conditions for safe storage, including any incompatibilities
- Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

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 No special protective equipment required

- Skin and body protection No special protective equipment required

- 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

- Physical state Solid
- Appearance Powder
- Color white
- Odor Odorless
- Color threshold No information available

- Property, pH Values
- Remarks, Method None known

Melting point / freezing point

- Boiling point / boiling range No data available
- Flash point No data available
- Evaporation rate No data available
- Flammability (solid, gas) No data available
- Flammability Limit in Air Upper flammability or explosive limits No data available
- Lower flammability or explosive limits No data available

- Vapor pressure No data available
- Vapor density No data available
- Relative density No data available
- Water solubility Insoluble in water
- Solubility (fat) No data available
- Partition coefficient No data available
- Autoignition temperature No data available
- Decomposition temperature No data available
- Kinematic viscosity No data available
- Dynamic viscosity No data available

- Other information
- Explosive properties No information available
- Oxidizing properties No information available
- Softening point No information available
- Molecular weight No information available
- VOC content No information available
- Liquid Density No information available
- Bulk density No information available

- Reactivity No information available.

- Chemical stability Stable under normal conditions.

- Possibility of hazardous reactions None under normal processing.

- Conditions to avoid None known based on information supplied.

- Incompatible materials None known based on information supplied.

- Hazardous decomposition products None known based on information supplied.

10. Stability and reactivity

11. Toxicological information

Information on likely routes of exposure

- 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

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

Skin corrosion/irritation No information available
 Serious eye damage/eye irritation No information available.
 Respiratory or skin sensitization No information available.
 Germ cell mutagenicity No information available
 Carcinogenicity No information available
 Reproductive toxicity No information available
 STOT - single exposure No information available.
 STOT - repeated exposure No information available.
 Aspiration hazard No information available.
 Other adverse effects No information available
 Interactive effects No information available.

12. Ecological information

Ecotoxicity The environmental impact of this product has not been fully investigated
Persistence and degradability No information available.
Bioaccumulation There is no data for this product.
Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

Waste from residuals/unused products Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.
 Contaminated packaging Do not reuse empty containers.

14. Transport information

DOT Not regulated
TDG Not regulated
MEX Not regulated
IATA Not regulated
IMDG Not regulated

15. Regulatory information

International inventories Contact supplier for inventory compliance status

US Federal Regulations

SARA 313
 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
SARA 311/312 Hazard Categories
 Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.
CWA (Clean Water Act)
 This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65
 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
 This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA	Health hazards 0	Flammability 0	Instability 0	Special hazards
HMS	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection 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)

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) (AELG(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 Substances Database
- International Uniform Chemical Information Database (IUCLID)
- National Institute of Technology and Evaluation (NITE)
- Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
- NIOSH (National Institute for Occupational Safety and Health)
- National Library of Medicine's ChemD 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
- World Health Organization

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 Revision Note Reformatted and updated existing information.

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