

SAFETY DATA SHEET

BIO-RAD

Revision date 06-Nov-2020

Revision Number 1

1. Identification

Product Identifier:
Product Name LB Broth
Other means of identification
Catalog Number(s) 1660421, 1660421EDU, 9702927
Recommended use of the chemical and restrictions on use
Laboratory chemicals
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

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

Technical Service 1-800-424-6729
Emergency telephone number support@bio-rad.com

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 Liquid **Physical state** Liquid **Odor** Odorless

Other information
No information available.

3. Composition/Information on ingredients

LB Broth

Revision date 06-Nov-2020

Substance

Not applicable

Mixture

Chemical name	CAS No	Weight-%	Trade secret
Water	7732-18-5	50 - 100	*
Yeast extract	8013-01-2	0.3 - 0.999	*
Sodium chloride	7647-14-5	0.3 - 0.999	*

* 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

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 312
 Section 312 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-HMIS Health hazards 0 Flammability 0 Instability 0 Special hazards -
 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)
Ceiling Maximum limit value
STEL 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 Levels (AEGLS)
 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)
 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 ChemID Plus (NLM CIP)
 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

19-Aug-2021

SDS sections updated: 1, 2.

Revision date

Revision Note

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

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 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 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 Liquid
Appearance Liquid
Color colorless
Odor Odorless
Odor threshold No information available

Property **Values**
pH 0
Melting point / freezing point 0 °C / 32 °F

Remarks - Method
 None known

Boiling point / boiling range

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 No data available None known
 Upper flammability or explosive limits No data available None known
 Lower flammability or explosive limits No data available None known

Lower flammability or explosive limits

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 None known
 Solubility(ies) No data available None known
 Partition coefficient No data available None known
 Autoignition temperature No data available None known
 Decomposition temperature No data available None known
 Kinematic viscosity No data available None known
 Dynamic viscosity No data available None known

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

10. Stability and reactivity

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.

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

Water 7732-18-5	Oral LD50 > 90 mL/Kg (Rat)	Dermal LD50 -	Initiation LC50 -
Sodium chloride 7647-14-5	= 3 g/kg (Rat)	> 10000 mg/kg (Rabbit)	> 42 mg/L (Rat) 1 h

Water 7732-18-5	Oral LD50 > 90 mL/Kg (Rat)	Dermal LD50 -	Initiation LC50 -
Sodium chloride 7647-14-5	= 3 g/kg (Rat)	> 10000 mg/kg (Rabbit)	> 42 mg/L (Rat) 1 h

Persistence and degradability
No information available

Bioaccumulation
There is no data for this product

Other adverse effects
No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
No information available

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

13. Disposal considerations

Waste treatment methods
Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Waste from residues/unused products
Do not reuse empty containers.

Contaminated packaging
Do not reuse empty containers.

14. Transport information

DOT
Not regulated

TDG
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MEX
Not regulated

IATA
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IMDG
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15. Regulatory information

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12. Ecological information

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium chloride 7647-14-5	-	LC50: 4747 - 7624mg/L (96h, Oncorhynchus mykiss) LC50: 5560 - 6080mg/L (96h, Lepomis macrochirus) LC50: 6020 - 7070mg/L (96h, Pimephales promelas) LC50: 6420 - 6700mg/L (96h, Pimephales promelas) LC50: =12946mg/L (96h)	-	EC50: 340.7 - 469.2mg/L (48h, Daphnia magna) EC50: =1000mg/L (48h, Daphnia magna)

Ecotoxicity