

Date Prepared: 06/04/2016 Reviewed On: 11/24/2015

1 Identification

· Product Identifier:

· Product Name: Modified Listeria Enrichment Broth, Dehydrate

· Catalog Number: 220520

· Application of the substance / the mixture

Laboratory Chemicals Laboratory Chemicals

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

BD Diagnostic Systems

7 Loveton Circle

Sparks, MD 21152

Telephone: (410) 771 - 0100 or (800) 638 - 8663

Email Address: Technical_Services@bd.com

· Information Department: Technical Service

· Emergency telephone number:

In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Repr. 1B H360 May damage fertility or the unborn child.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling: cycloheximide

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· Hazard statements

H302 Harmful if swallowed.

H360 May damage fertility or the unborn child.

· Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection. P280

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Obtain special instructions before use. P201

Do not handle until all safety precautions have been read and understood. P202

P308+P313 IF exposed or concerned: Get medical advice/attention.

P330 Rinse mouth. P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· NFPA ratings (scale 0-4)



Health = 3Flammability = 0Reactivity = 0

· HMIS ratings (scale 0-4)



3 Health = 3 ○ Flammability = 0 REACTIVITY \bigcirc Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixture
- · **Description**: Mixture consisting of the following components.

· Dangerous Components:

	•		
CAS: 66-81-9		cycloheximide	0.14%
EINECS: 200-63	86-0	Acute Tox. 2, H300; Muta. 2, H341; Repr. 1B, H360; Aquatic	
		Chronic 2, H411	

· Additional information Risk phrases refer to section 15.

4 First-aid measures

- · Description of first aid measures
- · General information No special measures required.

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- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact

Rinse opened eye for 15 minutes under running water. Then consult a doctor.

- · After swallowing Immediately call a doctor.
- · Information for doctor Show this product label or this SDS.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents

CO2, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Wipe up with damp sponge or mop.
- · Methods and material for containment and cleaning up: No special measures required.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires:

No special measures required.

- Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.

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· Information about storage in one common storage facility:

Store away from oxidizing agents.

• Further information about storage conditions: Store in cool, dry conditions in well sealed containers.

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems:

No further data; see Section 7.

- · Control parameters
- Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal Protective Equipment
- General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.

Protection of hands:





Chemical resistant gloves (i.e. nitrile, or equivalent).

· Eye protection: Safety glasses

· Body protection: Protective work clothing (lab coat).

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Solid.

Powder

Color: Light beige Characteristic

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· pH-value:	7.3 +/- 0.2
Change in condition	
Melting point/Melting range:	
Boiling point/Boiling range:	Not determined
· Flash point:	Not applicable
· Auto igniting:	Product is not self igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Density:	Not determined
· Solubility in / Miscibility with	
Water:	Insoluble
· Solvent content:	
Solids content:	100.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions Reacts with acids, alkalis and oxidizing agents
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:

Chlorine (CI)

Carbon monoxide (CO) and carbon dioxide (CO2)

Nitrogen oxides (NOx)

Phosphorus oxides (POx)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

66-81-9 cycloheximide

Oral LD50 2 mg/kg (rat)

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- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Other information (about experimental toxicology):

This product has a TDLo of 1,429 mg/Kg (Or-human) based on the cycloheximide content.

· Subacute to chronic toxicity:

Target organs: respiratory system, thorax, cardiovascular system, skin

Target organs: central nervous system, musculskeletal system, and developmental abnormalities.

Target organs: (Reproductive) central nervous system, eye/ear, musculoskeletal system, urogenital system. (Carcinogenesis) Blood Leukemia, lymphomas, aplastic anemia.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful Irritant

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Other information:

The ecological effects have not been thoroughly investigated, but currently none have been identified.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

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· Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Smaller quantities can be disposed of with solid waste. Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements. This product is not considered a RCRA hazardous waste.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to state and federal regulations.

Transport information	
· UN-Number	
· DOT, ADN, IMDG, IATA	Void
· UN proper shipping name	
· DOT, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
· UN "Model Regulation":	Void

- US

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15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · SARA Section 355 (extremely hazardous substances)

66-81-9 cycloheximide

· SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act)

9000-71-9 casein

8013-01-2 yeast extract

7647-14-5 sodium chloride

50-99-7 dextrose

7758-11-4 potassium phosphate, dibasic

7778-53-2 potassium phosphate, tribasic

· California Proposition 65 - Chemicals known to cause cancer

389-08-2 nalidixic acid

· California Proposition 65 - Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

- · California Proposition 65 Chemicals known to cause reproductive toxicity for males:

 None of the ingredients is listed.
- · California Proposition 65 Chemicals known to cause developmental toxicity:

66-81-9 cycloheximide

- · Carcinogenic categories
- · TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS07 GHS08

- · Signal word Danger
- Hazard-determining components of labeling: cycloheximide

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· Hazard statements

H302 Harmful if swallowed.

H360 May damage fertility or the unborn child.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P330 Rinse mouth. P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

Department issuing SDS:

Environmental, Health & Safety Created by Michael J. Spinazzola

- · Contact: Technical Service Representative
- Date of preparation / last revision 06/04/2016 / 1

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 4: Acute toxicity - Category 4

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Muta. 2: Germ cell mutagenicity – Category 2 Repr. 1B: Reproductive toxicity – Category 1B

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

US