Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/04/2016

Reviewed On: 04/22/2016

1 Identification

- · Product Identifier:
- · Product Name: Listeria Enrichment Broth
- · Catalog Number: 222220
- · Application of the substance / the mixture 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. 1 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



- · Signal word Danger
- Hazard-determining components of labeling: cycloheximide
- Hazard statements
 H302 Harmful if swallowed.
 H360 May damage fertility or the unborn child.

(Contd. on page 2)

Date Prepared: 06/04/2016

Product Name: Listeria Enrichment Broth

(Contd. of page 1) · 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. 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. Rinse mouth. P330 Store locked up. P405 P501 Dispose of contents/container in accordance with local/regional/national/ international regulations. · NFPA ratings (scale 0-4) Health = 4Flammability = 0Reactivity = 0· HMIS ratings (scale 0-4) HEALTH 4 Health = 4 FIRE • Flammability = 0 **REACTIVITY** O 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:

0	•		
CAS: 66-81-9		cycloheximide	0.1%
EINECS: 200-636	6-0	Acute Tox. 2, H300; Muta. 2, H341; Repr. 1B, H360; Aquatic Chronic 2, H411	
A . I. 11(1 I ! f		tion Distanting and a section 45	

· Additional information Risk phrases refer to section 15.

4 First-aid measures

· Description of first aid measures

· General information

Symptoms of poisoning may even occur after several hours; therefore provide medical observation for at least 48 hours after the accident.

• After inhalation Supply fresh air; consult doctor in case of complaints.

(Contd. on page 3)

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Date Prepared: 06/04/2016

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Product Name: Listeria Enrichment Broth

(Contd. of page 2)

- · 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.
- Information about storage in one common storage facility: Store away from oxidizing agents.

(Contd. on page 4)

Date Prepared: 06/04/2016

Product Name: Listeria Enrichment Broth

 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. Store protective clothing separately.
- 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

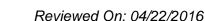
7.3 +/- 0.2

- · General Information
- · Appearance:

Form:	Solid. Powder
Color:	Light beige
· Odor:	Characteristic

· pH-value:

(Contd. on page 5)





(Contd. of page 3)

US



Date Prepared: 06/04/2016

Reviewed On: 04/22/2016

Product Name: Listeria Enrichment Broth

	(Contd. of page
 Change in condition Melting point/Melting range Boiling point/Boiling range 	
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: 	n Soluble
· Solvent content:	
Solids content: • Other information	100.0 % 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: 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)

- · Primary irritant effect:
- · on the skin: No irritating effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.

(Contd. on page 6)

Date Prepared: 06/04/2016

Product Name: Listeria Enrichment Broth

(Contd. of page 5) · 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: (Reproductive) central nervous system, eve/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.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation
 Smaller quantities can be disposed of with solid waste.
 This product is not considered a RCRA hazardous waste.

(Contd. on page 7)

⁻ US

Safety Data Sheet acc. to OSHA HCS

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Reviewed On: 04/22/2016

Product Name: Listeria Enrichment Broth

(Contd. of page 6)

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to state and federal regulations.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

14 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 II of MARPOL73/78 and the IBC Code Not applicable. · UN "Model Regulation": Void

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)

8013-01-2 yeast extract

7647-14-5 sodium chloride

(Contd. on page 8)

US

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 06/04/2016

Reviewed On: 04/22/2016

Product Name: Listeria Enrichment Broth

(Contd. of page 7)

50-99-7 dextrose

7758-11-4 potassium phosphate, dibasic

· 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

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- · Signal word Danger
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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.
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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.

(Contd. on page 9)



Date Prepared: 06/04/2016

Reviewed On: 04/22/2016

Product Name: Listeria Enrichment Broth

(Contd. of page 8)

· 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 Muta. 2: Germ cell mutagenicity – Category 2 Repr. 1: Reproductive toxicity - Category 1 Repr. 1B: Reproductive toxicity - Category 1B Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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