

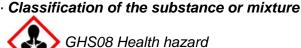
Date Prepared: 04/17/2015

Reviewed On: 04/17/2015

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- · Product Identifier
- Product Name: Listeria Enrichment Broth
- · Catalog Number: 222220
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture In-vitro Diagnostics
- · 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



GHS08 Health hazard

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

GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

X Xn; Harmful

Harmful if swallowed.

Xi; Irritant

R22:

Irritating to eyes, respiratory system and skin. R36/37/38:

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· Label elements

· GHS label elements

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



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(Contd. of page 1) · Hazard pictograms GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: cycloheximide · 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. Obtain special instructions before use. P201 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 P405 Store locked up. 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 = 4Flammability = 0FIRE 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.

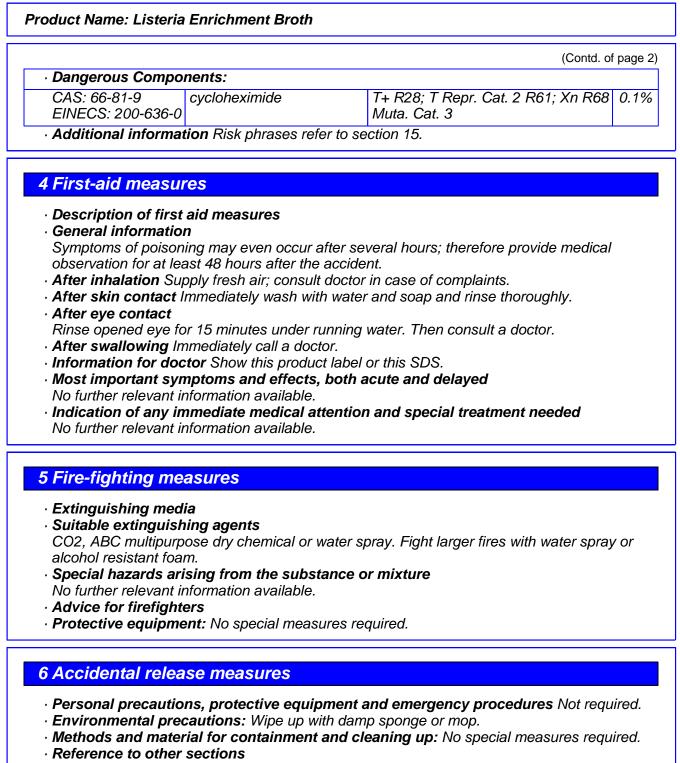
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See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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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.
- 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).

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9 Physical and chemical p	properties		
 Information on basic physica General Information 	al and chemical properties		
· Appearance:			
Form:	Solid. Powder		
Color:	Light beige		
· Odor:	Characteristic		
· pH-value:	7.3 +/- 0.2		
 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: 	Soluble		
· Solvent content:			
Solids content: • Other information	100.0 % No further relevant information available.		

10 Stability and reactivity

- · Reactivity
- · 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)

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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: 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: (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.

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Safety Data Sheet acc. to OSHA HCS

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- · 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. 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, ADR, ADN, IMDG, IATA	Void		
· UN proper shipping name			
· DOT, ADR, ADN, IMDG, IATA	Void		
· Transport hazard class(es)			
· DOT, ADR, ADN, IMDG, IATA			
· Class	Void		
· Packing group			
· DOT, ADR, 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 	ll of Not applicable.		
· UN "Model Regulation":	-		
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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)
- 8013-01-2 yeast extract
- 7647-14-5 sodium chloride
- 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
- 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.

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Pr	ecal	ition	ary	state	ments
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- 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.

· Contact: Technical Service Representative

· Date of preparation / last revision 04/17/2015 / 1

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) 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 Acute Tox. 4: Acute toxicity, Hazard Category 4 Repr. 1B: Reproductive toxicity, Hazard Category 1B