

Date Prepared: 10/08/2014

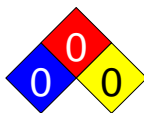
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1 Identification

- **Product Identifier**
- **Product Name:** Malt Extract Broth
- **Catalog Number:** 211320
- **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

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200, the Canada's Workplace Hazardous Materials Information System (WHMIS) and the European Directive 67/548/EEC and 1999/45/EC.
- **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**
- **Labelling according to EU guidelines:**
This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR), and the MSDS contains all of the information required by the CPR. Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations pertaining to regulations on hazardous materials.
- **Classification system**
- **NFPA ratings (scale 0-4)**



Health = 0
Flammability = 0
Reactivity = 0

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· HMIS ratings (scale 0-4)

| | | |
|------------|---|------------------|
| HEALTH | 0 | Health = 0 |
| FIRE | 0 | Flammability = 0 |
| REACTIVITY | 0 | 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:** Void
- **Additional information** Risk phrases refer to section 15.

4 First-aid measures

- **Description of first aid measures**
- **General information** No special measures required.
- **After inhalation** Seek medical treatment in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Information for doctor** Show this product label or this MSDS.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **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.

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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** No dangerous substances are released.

7 Handling and storage

- **Precautions for safe handling** No special measures required.
- **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:** < 30 °C
- **Information about storage in one common storage facility:**
Store away from oxidizing agents.
- **Further information about storage conditions:** None.
- **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**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:**



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

- **Eye protection:** Safety glasses

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 · **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: | Beige |
| Odor: | Characteristic |

 · **pH-value at 25 °C:** 4.7 +/- 0.2

 · **Change in condition**
Melting point/Melting range: Not determined

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: Soluble

 · **Solvent content:**
Solids content: 100.0 %

 · **Other information** 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** No dangerous reactions known

 · **Conditions to avoid** No further relevant information available.

 · **Incompatible materials:** No further relevant information available.

 · **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information**· Information on toxicological effects****· Acute toxicity:****· Primary irritant effect:****· on the skin:** No irritating effect.**· on the eye:** No irritating effect.**· Sensitization:** No sensitizing effects known.**· Additional toxicological information:**

The product is not subject to OSHA classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories**· 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.**· Bioaccumulative potential** No further relevant information available.**· Mobility in soil** No further relevant information available.**· Ecotoxicological effects:****· Other information:**

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

· Additional ecological information:**· General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**· Other adverse effects** No further relevant information available.**13 Disposal considerations****· Waste treatment methods****· Recommendation**

Must adhere to official regulations.

Smaller quantities can be disposed of with solid waste.

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

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

14 Transport information

 · **UN-Number**

 · **DOT, TDG, ADN, IMDG, IATA** Void

 · **UN proper shipping name**

 · **DOT, TDG, ADN, IMDG, IATA** Void

 · **Transport hazard class(es)**

 · **DOT, TDG, ADN, IMDG, IATA**

 · **Class** Void

 · **Packing group**

 · **DOT, TDG, 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.

 · **Transport/Additional information:** If a "void" appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation.

15 Regulatory information

 · **Safety, health and environmental regulations/legislation specific for the substance or mixture**

 · **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

 · **Canadian Substance Listing**

 · **Canadian Domestic Substance List (DSL)**

50-99-7 dextrose

69-79-4 maltose

8013-01-2 yeast extract

77-92-9 citric acid

68-04-2 Sodium citrate

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· Canadian Ingredient Disclosure List (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure List (limit 1%)

77-92-9 | citric acid

· Product related hazard information:

This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR), and the MSDS contains all of the information required by the CPR.

Observe the general safety regulations when handling chemicals

The product is not subject to identification regulations pertaining to regulations on hazardous materials.

· 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 MSDS:

Environmental, Health & Safety

Created by Michael J. Spinazzola

· Date of preparation / last revision 10/08/2014 / 1

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