

Date Prepared: 11/10/2009

Reviewed On: 12/21/2007

1 Identification of substance:

- **Product name:** Demi-Fraser Broth Base
- **Catalog number:** 265320
- **Manufacturer/Supplier:**
 BD Diagnostic Systems
 7 Loveton Circle
 Sparks, MD 21152
 Telephone: (410) 771 - 0100 or (800) 638 - 8663
- **Information department:** Technical Services
- **Emergency information:**
 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 Composition/Data on components:

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

- **Dangerous components:**

7647-14-5	sodium chloride	36.5%
7447-41-8	lithium chloride	5.5%
7558-79-4	sodium phosphate, dibasic	18.8%

3 Hazards identification

- **Hazard description:**



T Toxic

- **Information pertaining to particular dangers for man and environment**

R 61 May cause harm to the unborn child
 R 36/37/38 Irritating to eyes, respiratory system and skin.

- **Classification system**

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

- **NFPA ratings (scale 0-4)**



Health = 2
 Fire = 0
 Reactivity = 0

- **HMIS ratings (scale 0-4)**



Health = *1
 Fire = 0
 Reactivity = 0

4 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 MSDS.

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.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Wipe up with damp sponge or mop.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.
- **Additional information:**
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**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** < 30 C
- **Information about storage in one common storage facility:**
Do not store together with oxidizing and acidic materials.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **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.
- **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.

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- **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:

· General Information

Form:	Solid. Powder
Color:	Beige
Odor:	Characteristic

· 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
· pH-value:	7.2 +/- 0.2
· Solvent content:	
· Solids content:	100.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:**
Carbon monoxide (CO) and carbon dioxide (CO₂)
Sulfur oxides (SO_x)
Lithium oxide (LiO_x)

CDN

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11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

7447-41-8 lithium chloride

Oral	LD50	422 mg/kg (brd)
		526 mg/kg (rat)

7647-14-5 sodium chloride

Oral	LD50	3000 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.

· **Additional toxicological information:**

Product is suspected to cause birth defects.

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

Irritant

Product is suspected to cause damage to fertility.

12 Ecological information:

· **Ecotoxic effects:**

· **Other information:**

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

· **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

13 Disposal considerations

· **Product:**

· **Recommendation** Must adhere to official regulations.

· **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

· **DOT regulations:**

· **Hazard class:** -

· **TDG (Transport dangerous goods):**

· **TDG class:** -

· **Maritime transport IMDG:**

· **IMDG Class:** -

· **Marine pollutant:** No

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- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

15 Regulations

- **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

- **SARA Section 313 (specific toxic chemical listings)**

None of the ingredients is listed.

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

7647-14-5 sodium chloride

7558-79-4 sodium phosphate, dibasic

8013-01-2 yeast extract

7447-41-8 lithium chloride

7778-77-0 potassium phosphate, monobasic

531-75-9 esculin

- **Carcinogenicity categories**

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **Canadian Substance Listing**

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

7647-14-5 sodium chloride

7558-79-4 sodium phosphate, dibasic

8013-01-2 yeast extract

7447-41-8 lithium chloride

7778-77-0 potassium phosphate, monobasic

531-75-9 esculin

- **Canadian Ingredient Disclosure List (limit 0.1%)**

None of the ingredients is listed.

- **Canadian Ingredient Disclosure List (limit 1%)**

None of the ingredients is listed.

- **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.

- **Hazard symbols:**

T Toxic

- **Hazard-determining components of labeling:**

sodium chloride

lithium chloride

sodium phosphate, dibasic

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Material Safety Data Sheet
acc. to ISO/DIS 11014

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· Risk phrases:

- 61 May cause harm to the unborn child
- 36/37/38 Irritating to eyes, respiratory system and skin.

· Safety phrases:

- 24/25 Avoid contact with skin and eyes.
- 36 Wear suitable protective clothing.
- 22 Do not breathe dust.
- 7 Keep container tightly closed.
- 60 This material and its container must be disposed of as hazardous waste.

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:

Safety and Environment Department
MSDS created by Michael J. Spinazzola

· Contact: Technical Service Representative

CDN