

Date Prepared: 04/20/2011 Reviewed On: 02/11/2011

#### 1 Identification of the substance/mixture and of the company/undertaking

· Product Identifier

· Product Name: Fraser Broth Base

· Catalog Number: 211766

· 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

· 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 Composition/information on ingredients

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

· Dangerous Components:				
7647-14-5	sodium chloride	36.4%		
7558-79-4	sodium phosphate, dibasic	13.5%		
7447-41-8	lithium chloride	5.5%		

### 3 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC



T; Toxic

R61: May cause harm to the unborn child.



Xi; Irritant

R36/37/38: 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.

- · Label elements
- · Labelling according to EU guidelines:

The product has been classified and marked in accordance with regulations on hazardous materials.

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· Code letter and hazard designation of product:



T Toxic

· Hazard-determining components of labelling:

sodium chloride lithium chloride sodium phosphate, dibasic

· Risk phrases:

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

· Safety phrases:

7 Keep container tightly closed.

22 Do not breathe dust.

24/25 Avoid contact with skin and eyes.

36 Wear suitable protective clothing.

This material and its container must be disposed of as hazardous waste.

· NFPA ratings (scale 0-4)



Health = 3 Fire = 0Reactivity = 0

· HMIS ratings (scale 0-4)



Health = 3
 Fire = 0
 Reactivity = 0

#### 4 First aid measures

- · General information Immediately remove contaminated clothing.
- · After inhalation

In case of unconsciousness place patient on side position for transportation. Supply fresh air or oxygen; and immediately call for a doctor.

- · 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 Call a doctor immediately.

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### 5 Firefighting 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
  During heating or in case of fire toxic gases may be produced.
- · Protective equipment: Use respiratory protective device.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Use respiratory protective device.
- · Environmental precautions: Wipe up with damp sponge or mop.
- Methods and material for containment and cleaning up: Ensure adequate ventilation.
- · 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.

- Storage
- · Requirements to be met by storerooms and receptacles: < 30  $^{\circ}$ 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/personal protection

· Additional information about design of technical systems:

No further data; see Section 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.

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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

· General Information

· Appearance:

Form: Powder Color: Beige

· Odor: Characteristic

• **pH-value:** 7.2 +/- 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 %

## 10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Incompatible materials: Incompatible materials: strong acids and oxidizers.
- · Hazardous decomposition products:

Carbon dioxide (CO2)

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Hydrogen chloride (HCI) Sulfur oxides (SOx) Phosphorus oxides (POx) Lithium oxide (LiOx)

### 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)

7558-79-4 sodium phosphate, dibasic

Oral LD50 17000 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.
- · Subacute to chronic toxicity:

Target organs: central nervous system, kidneys, and blood.

Target organs: reproductive disorders, and tumor formation.

Target organs: eyes, face, muscles, and urogenital system.

· 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

- · Acquatic toxicity: No further relevant information available.
- · Ecotoxical 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.

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### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not 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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

### 14 Transport information

- · DOT regulations:
- · Hazard class:
- · Land transport ADR/RID (cross-border)
- · ADR/RID class:
- · Maritime transport IMDG:
- · IMDG Class:
- · Marine pollutant: No
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -

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· 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

9002-18-0 agar

7778-77-0 potassium phosphate, monobasic

531-75-9 esculin

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· 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:

None of the ingredients is listed.

- · Carcinogenic categories
- · NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· Product related hazard information:

The product has been classified and marked in accordance with regulations on hazardous materials.

· Hazard symbols:



T Toxic

· Hazard-determining components of labeling:

sodium chloride lithium chloride sodium phosphate, dibasic

· Risk phrases:

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

Safety phrases:

7 Keep container tightly closed.

22 Do not breathe dust.

24/25 Avoid contact with skin and eyes.

36 Wear suitable protective clothing.

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

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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

· Contact: Technical Service Representative

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