

Date Prepared: 03/01/2011

Reviewed On: 02/11/2011

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




- **Product Identifier**
- **Product Name:** Oxford Medium Base
- **Catalog Number:** 222510
- **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.*

· <b>Dangerous Components:</b>		
7447-41-8	lithium chloride	26.09%
7647-14-5	sodium chloride	7.65%
9005-25-8	Starch	1.57%

## 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.
-  **Xn; Harmful**  
 R22: Harmful if swallowed.
-  **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.
- **Code letter and hazard designation of product:**  
 T Toxic
- **Hazard-determining components of labelling:**  
 lithium chloride
- **Risk phrases:**  
 22 Harmful if swallowed.

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

**· Safety phrases:**

53 Avoid exposure - obtain special instructions before use.  
7 Keep container tightly closed.  
20 When using do not eat or drink.  
22 Do not breathe dust.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36/37 Wear suitable protective clothing and gloves.  
45 In case of accident or if you feel unwell, seek medical advice immediately.  
60 This material and its container must be disposed of as hazardous waste.

**· NFPA ratings (scale 0-4)**

**· HMIS ratings (scale 0-4)**

HEALTH	2	Health = 2
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

#### 4 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.
- **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 Firefighting measures

**· Suitable extinguishing agents**

CO<sub>2</sub>, 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

- **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:** Ensure adequate ventilation.

**· Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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## 7 Handling and storage

- **Handling**
- **Precautions for safe handling** No special measures required.
- **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/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:**

**9005-25-8 Starch**

PEL	15*; 5** mg/m <sup>3</sup> *Total dust **Respirable fraction
REL	10*; 5** mg/m <sup>3</sup> *Total dust **Respirable dust
TLV	10 mg/m <sup>3</sup>

- **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.
- **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:** Solid.  
Powder

**Color:** Light beige

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· <b>Odor:</b>	Characteristic
· <b>pH-value:</b>	7.2 +/- 0.2
· <b>Change in condition</b> <b>Melting point/Melting range:</b> Not determined <b>Boiling point/Boiling range:</b> Not determined	
· <b>Flash point:</b>	Not applicable
· <b>Auto igniting:</b>	Product is not self igniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Density:</b>	Not determined
· <b>Solubility in / Miscibility with Water:</b>	Soluble
· <b>Solvent content:</b>	
<b>Solids content:</b>	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:**  
Hydrogen chloride (HCl)  
Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)  
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)

- **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: 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:  
Harmful  
Irritant

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Product is suspected to cause damage to fertility.

### 12 Ecological information

- **Acquatic toxicity:** 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.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Smaller quantities can 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:** -

### 15 Regulatory information

- **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)**

9002-18-0	agar
7447-41-8	lithium chloride
9000-71-9	casein

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