

Date Prepared: 10/15/2008

Reviewed On: 12/21/2007

1 Identification of substance:

- **Product name:** Palcam Medium Base
- **Catalog number:** 263610
- **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:**

7447-41-8	lithium chloride	22.0%
-----------	------------------	-------

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 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.

(Contd. on page 2)

Date Prepared: 10/15/2008

Reviewed On: 12/21/2007

Product name: Palcam Medium Base

(Contd. of page 1)

- **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:** No special measures required.
- **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.
 - **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.

(Contd. on page 3)

Date Prepared: 10/15/2008

Reviewed On: 12/21/2007

Product name: Palcam Medium Base

(Contd. of page 2)

· 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:	Pink
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:

Hydrogen chloride (HCl)

 Carbon dioxide (CO₂)

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)

(Contd. on page 4)



Material Safety Data Sheet

acc. to ISO/DIS 11014

Date Prepared: 10/15/2008

Reviewed On: 12/21/2007

Product name: Palcam Medium Base

(Contd. of page 3)

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.
- **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:

- **Ecotoxicological 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 not be disposed of with solid waste.
 - 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
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

15 Regulations

- **SARA Section 355 (extremely hazardous substances)**
 - None of the ingredients is listed.

(Contd. on page 5)

CDN

Date Prepared: 10/15/2008

Reviewed On: 12/21/2007

Product name: Palcam Medium Base

(Contd. of page 4)

· 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
69-65-8	mannitol
8013-01-2	yeast extract
9000-71-9	casein
7647-14-5	sodium chloride
50-99-7	dextrose
531-75-9	esculin
1185-57-5	ferric ammonium citrate
144-55-8	sodium bicarbonate
9005-25-8	Starch
127-17-3	pyruvic acid
143-74-8	phenol red
7631-90-5	sodium bisulfite
10043-52-4	calcium chloride

· Carcinogenicity categories
· IARC (International Agency for Research on Cancer)

7631-90-5	sodium bisulfite	3
-----------	------------------	---

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

9005-25-8	Starch	A4
7631-90-5	sodium bisulfite	A4

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

9002-18-0	agar
7447-41-8	lithium chloride
69-65-8	mannitol
8013-01-2	yeast extract
9000-71-9	casein
7647-14-5	sodium chloride
50-99-7	dextrose
531-75-9	esculin
1185-57-5	ferric ammonium citrate
144-55-8	sodium bicarbonate
9005-25-8	Starch
127-17-3	pyruvic acid
143-74-8	phenol red
7631-90-5	sodium bisulfite

(Contd. on page 6)

**Material Safety Data Sheet**
acc. to ISO/DIS 11014

Date Prepared: 10/15/2008

Reviewed On: 12/21/2007

Product name: Palcam Medium Base

(Contd. of page 5)

10043-52-4 calcium chloride

· 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:

lithium chloride

· 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.

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