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

Date Prepared: 01/07/2010 Reviewed On: 01/31/2009

## 1 Identification of substance:

· **Product name:** Sedi-Stain
· **Catalog number:** 421571

· **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:**

| | | |
|---|---|---|
| 64-17-5 | ethanol | 10.0% |

## 3 Hazards identification

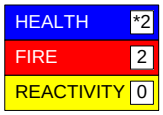
· **Hazard description:**

Xn Harmful

· **Information pertaining to particular dangers for man and environment**
R 40 Limited evidence of a carcinogenic effect.
R 10 Flammable.
R 22 Harmful if swallowed.
· **NFPA ratings (scale 0-4)**

Health = 2
Fire = 2
Reactivity = 0

· **HMIS ratings (scale 0-4)**




Health = *2
Fire = 2
Reactivity = 0

## 4 First aid measures

· **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.

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· **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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Ensure adequate ventilation.

## 7 Handling and storage

· **Handling**
· **Information for safe handling:** No special measures required.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **Storage**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.
· **Information about storage in one common storage facility:** Store away from oxidizing agents.
· **Further information about storage conditions:**
Keep receptacle tightly sealed.
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:**

**64-17-5 ethanol**

| | |
|---|---|
| PEL | 1900 mg/m³, 1000 ppm |
| REL | 1900 mg/m³, 1000 ppm |
| TLV | 1880 mg/m³, 1000 ppm |

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal Protective Equipment**
· **General protective and hygienic measures** Wash hands before breaks and at the end of work.
· **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.

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· **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:** | *Liquid* |
| **Color:** | *Purple* |
| **Odor:** | *Characteristic* |
| · **Change in condition** | |
| **Melting point/Melting range:** | *Not determined* |
| **Boiling point/Boiling range:** | *Not determined* |
| · **Flash point:** | *52.2°C (126°F)* |
| · **Ignition temperature:** | *425.0°C (797°F)* |
| · **Auto igniting:** | *Product is not self igniting.* |
| · **Danger of explosion:** | *Product does not present an explosion hazard.* |
| · **Explosion limits:** | |
| **Lower:** | *3.5 Vol %* |
| **Upper:** | *15.0 Vol %* |
| · **Density:** | *Not determined* |
| · **Solubility in / Miscibility with** | |
| **Water:** | *Soluble* |
| · **pH-value:** | *6.0 +/- 0.1* |
| · **Solvent content:** | |
| **Organic solvents:** | *10.0 %* |

## 10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
· **Materials to be avoided:**
· **Dangerous reactions** *No dangerous reactions known*
· **Dangerous products of decomposition:** *No dangerous decomposition products known.*



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## 11 Toxicological information

· **Acute toxicity:**

| · **LD/LC50 values that are relevant for classification:** | | |
|---|---|---|
| **64-17-5 ethanol** | | |
| Oral | LD50 | 3450 mg/kg (MOU)<br>7060 mg/kg (rat) |

· **Primary irritant effect:**
· **on the skin:** No irritating effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.
· **Subacute to chronic toxicity:** Target organs: thyroid, kidney, ureter or bladder tumors.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful

## 12 Ecological information:

· **Ecotoxical effects:**
· **Other information:**
The ecological effects have not been thoroughly investigated, but currently none have been identified.
· **Additional ecological information:**
· **General notes:** Not known to be hazardous to water.

## 13 Disposal considerations

· **Product:**
· **Recommendation**
Must not be disposed of with solid waste.
Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.
RCRA hazardous waste - RCRA # D001 (ignitable).

· **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:** -

· **Remarks:** 49CFR 173.150(e)(2) - States that aqueous solution of alcohol containing 24 percent or less alcohol by volume and no other hazardous material can be re-class as a combustible liquid and is not subject to the requirements.

· **Land transport ADR/RID (cross-border)**
· **ADR/RID class:** -
· **UN-Number:**
· **Packaging group:** -

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· **Maritime transport IMDG:**
· **IMDG Class:** -
· **Marine pollutant:** No
· **Remarks:** IMDG Special Provision 144 - An aqueous solution containing not more than 24% alcohol by volume is not subject to the provisions of this code.

· **Air transport ICAO-TI and IATA-DGR:**
· **ICAO/IATA Class:** -
· **Remarks:** IATA Special Provision A58 - Aqueous solutions containing 24% or less alcohol by volume is not subject to these regulations.

## 15 Regulations

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

None of the ingredients is listed.

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

| | |
|---|---|
| 64-17-5 | ethanol |

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

| | |
|---|---|
| 7732-18-5 | water |
| 64-17-5 | ethanol |
| 477-73-6 | safranin o |
| 548-62-9 | C.I. Basic Violet 3 |

· **California Proposition 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

· **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:**

| | |
|---|---|
| 64-17-5 | ethanol |

· **Carcinogenic categories**

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

| | | |
|---|---|---|
| 64-17-5 | ethanol | A4 |

· **Product related hazard information:**
The product has been classified and marked in accordance with regulations on hazardous materials.

· **Hazard symbols:**
Xn Harmful

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

· **Risk phrases:**
40 Limited evidence of a carcinogenic effect.
10 Flammable.

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22 Harmful if swallowed.

· **Safety phrases:**
7 Keep container tightly closed.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe gas/fumes/vapour/spray.
36/37 Wear suitable protective clothing and gloves.
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