

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:** Nitrate A Reagent Dropper
- **Catalog Number:** 261197
- **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:** Substances
- **Identification number(s):** Not applicable
- **Chemical characterization:** Mixture
- **Description:** Mixture consisting of the following components.

· **Dangerous Components:**

64-19-7	acetic acid	29.6%
121-57-3	sulfanilic acid	0.79%

3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 C; Corrosive
R34: Causes burns.
- **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:**
C Corrosive
- **Hazard-determining components of labelling:**
acetic acid
- **Risk phrases:**
34 Causes burns.
- **Safety phrases:**
1/2 Keep locked up and out of the reach of children.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately.

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

· **NFPA ratings (scale 0-4)**

Health = 3
Fire = 0
Reactivity = 0

· **HMIS ratings (scale 0-4)**

Health = 3
Fire = 0
Reactivity = 0

4 First aid measures

- **General information** Immediately remove contaminated clothing.
- **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** Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- **Information for doctor** Show this product label or this MSDS.

5 Firefighting 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

- **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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Use neutralizing agent.
- **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:** 15 - 30 °C

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- **Information about storage in one common storage facility:**
Store away from oxidizing agents.
Do not store together with alkaline material.
- **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:**

64-19-7 acetic acid

PEL	25 mg/m ³ , 10 ppm
REL	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm
TLV	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm

- **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: Liquid

Color: Clear

- **Odor:** Strong

- **pH-value:** 1.6 +/- 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.

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· Density:	Not determined
· Solubility in / Miscibility with Water:	Soluble
· Solvent content:	
Organic solvents:	9.7 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Incompatible materials:**
Incompatible materials: Acids, bases, oxidizing agents, soluble carbonates and phosphates, hydroxides, oxides, metals, acid anhydrides, peroxides, permanganates, amines, and alcohols.
- **Hazardous decomposition products:**
Carbon monoxide (CO) and carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Sulfur oxides (SO_x)

11 Toxicological information

· **Acute toxicity:**

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

64-19-7 acetic acid

Oral	LD50	3310 mg/kg (rat)
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· **Primary irritant effect:**

· **on the skin:** Caustic effect on skin and mucous membranes.

· **on the eye:** Strong caustic effect.

· **Sensitization:** No sensitizing effects known.

· **Subacute to chronic toxicity:** Target organs: teeth, skin, kidneys, and respiratory system.

· **Additional toxicological information:**

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

Corrosive (causes skin burns)

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

· **Aquatic 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.

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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.
RCRA hazardous waste - RCRA # D002 (corrosive).
- **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:** 8
- **Identification number:** UN2790
- **Packing group:** III
- **Proper shipping name:** ACETIC ACID SOLUTION
- **Label** 8
- **Remarks:** This product can be transported using the "small quantity" exception. This package conforms to 49 CFR 173.4 for domestic highway or rail transport only.
The Hazard Class, Identification number, and Packing group listed above is for informational purposes only.

· Land transport ADR/RID (cross-border)



- **ADR/RID class:** 8 (C3) Corrosive substances
- **Danger code (Kemler):** 80
- **UN-Number:** 2790
- **Packaging group:** III
- **UN proper shipping name:** 2790 ACETIC ACID SOLUTION

· Maritime transport IMDG:



- **IMDG Class:** 8
- **UN Number:** 2790
- **Label** 8

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· **Packaging group:** III
 · **EMS Number:** F-A,S-B
 · **Marine pollutant:** No
 · **Proper shipping name:** ACETIC ACID SOLUTION
 · **Remarks:** Limited quantity

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 8
 · **UN/ID Number:** 2790
 · **Label:** 8
 · **Packaging group:** III
 · **Proper shipping name:** ACETIC ACID SOLUTION
 · **Remarks:** This product can be transported using the exception: Dangerous Goods in Excepted Quantities. The Hazard class, Identification number, and Packing group listed above is for informational purposes only.

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)**

All ingredients are listed.

· **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:**

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.

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

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Material Safety Data Sheet
acc. to ISO/DIS 11014

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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:

Environmental, Health & Safety

Created by Michael J. Spinazzola

Contact: *Technical Service Representative*

USA