

# MATERIAL SAFETY DATA SHEET

Iron Buffer Solution

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Iron Buffer Solution

Product Code: 285-42

Material Uses:  
Manufacturer: OFI Testing Equipment, Inc.  
11302 Steeplecrest Drive  
Houston, TX 77065 USA  
Phone: (713) 880-9885  
Fax: (713) 880-9886

Entry Date : 5/12/2010

Print Date: 8/2/2010

24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

|                     |        |                      |      |         |
|---------------------|--------|----------------------|------|---------|
| Health:             | 1      |                      |      |         |
| Flammability:       | 0      |                      |      |         |
| Reactivity:         | 0      |                      |      |         |
| Hazard Rating:      |        |                      |      |         |
| Least               | Slight | Moderate             | High | Extreme |
| 0                   | 1      | 2                    | 3    | 4       |
| NA = Not Applicable |        | NE = Not Established |      |         |

## SECTION 2 HAZARD IDENTIFICATION

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

Emergency Overview: Caution! May Cause Irritation To Skin, Eyes, And Respiratory Tract.

Inhalation: Irritates the Respiratory Tract. May Produce Sore Throat, Coughing and Labored Breathing.

Ingestion: Large Doses may Produce Abdominal Pain, Nausea, and Vomiting.

Skin: May Cause Irritation with Redness and Pain.

Eye Contact: May Cause Irritation, Redness, Pain, or Blurred Vision

Chronic Exposure: No Information Found.

Aggravated by Exposure: Persons with Pre-Existing Skin Disorders or Impaired Respiratory Function may be More Susceptible to the Effects of the Substance.

## SECTION 3 MIXTURE COMPONENTS

| SARA 313                 | Component                     | CAS Number     | Percent Comp. | Dimension | Exposure Limits  |
|--------------------------|-------------------------------|----------------|---------------|-----------|------------------|
| <input type="checkbox"/> | Sodium Acetate Trihydrate     | CAS# 6131-90-4 | 45 - 55%      | W/V       | None Established |
| <input type="checkbox"/> | Water, Deionized ASTM Type II | CAS# 7732-18-5 | Balance       | V/V       | None Established |

## SECTION 4 FIRST AID MEASURES

May be harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. if irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

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If swallowed give large quantities of water and get medical attention immediately.

### SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire

Fire / Explosion Hazards: May pose a fire hazard when exposed to elevated temperature or contact with ignition source.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

Ventilate area or Leak or Spill. Remove all Sources of Ignition. Wear Appropriate Personal Protective Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and Unprotected Personnel from Entering. Contain and Recover Liquid when Possible. Absorb with an Inert Material (e.g. Vermiculite, Dry Sand, Earth), and Place in a Chemical Waste Container. Do Not Use Combustible Materials, such as Saw Dust. Do not Flush to Sewer!

### SECTION 7 HANDLING AND STORAGE

Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling. Keep out of direct sunlight and away from heat, water and incompatible materials. Do not reuse containers.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Wear appropriate gloves to prevent skin exposure

Eye Protection: Splash Goggles

Other Protective Equipment: Use safe laboratory handling procedures.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

|                      |                           |                             |                           |
|----------------------|---------------------------|-----------------------------|---------------------------|
| Melting Point:       | Information not available | Percent Volatile by Volume: | ~ 50                      |
| Boiling Point:       | Information not available | Evaporation Rate            | Information not available |
| Vapor Pressure:      | Information not available | Evaporation Standard        |                           |
| Vapor Density:       | Information not available | Auto Ignition Temp          | Information not available |
| Solubility in Water: | Soluble                   | Lower Flamm. Limit in Air   | Information not available |

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|                    |   |                           |                           |
|--------------------|---|---------------------------|---------------------------|
| Appearance /Odors: | Clear, colorless liquid with acetic acid odor | Upper Flamm. Limit in Air | Information not available |
| Flash Point:       | Not applicable                                |                           |                           |
| Specific Gravity:  | ~ 1.2   |                           |                           |

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

|                                   |                             |
|-----------------------------------|-----------------------------|
| Stability:                        | Stable                      |
| Conditions to Avoid:              | None known                  |
| Materials to Avoid:               | None known                  |
| Hazardous Decomposition Products: | Oxides of carbon and sodium |
| Hazardous polymerization:         | Will Not Occur              |
| Conditions to Avoid:              | None known                  |

**SECTION 11 Toxicological Information**

Carcinogenic References: NTP Carcinogen - Known: No, IARC Category - None

**SECTION 12 Ecological Information**

Environmental Fate: No Information Found.

Environmental Toxicity: Freshwater Fish Species Data: 24 Hr LC50 Lepomis macrochirus: 5000 mg/L  
Microtox Data: 18 Hr EC50 Pseudomonas Putida: 7200 mg/L  
Water Flea Data: 48 Hr ED50 water flea: 5800 mg/L

**SECTION 13 Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. States and local disposal regulations may differ from federal, state and local requirements.

**SECTION 14 Transport Information**

DOT Classification: Not Regulated

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

**SECTION 15 Regulatory Information**

Chemical Inventory Status –

Part 1:Ingredient

Sodium Acetate (127-09-03)

TSCA Yes

EC Yes

Japan YES

Australia Yes

Chemical Inventory Status –

Iron Buffer Solution

Part 2:Ingredient

Sodium Acetate ( 127-09-03)

Korea Yes

DSL Yes

NDSL No

Phil. Yes

Federal, State & International Regulations –

Part 1: Ingredient.

Sodium Acetate (127-09-03)

RQ No

TPQ No

List No

Chemical Catg No

Federal, State &

International Regulations –

Part 2:Ingredient

Sodium Acetate (127-09-03)

CERCLA No

261.33 No

8(d) No

Chemical Weapons Convention: No

TSCA 12 (b):No

CDTA:No PURE/SOLID

SARA 311/312: Acute: Yes

Chronic: No

Fire: No

Pressure: No

Reactivity: No

Australian Hazchem Code: None allocated

Poison Schedule: None allocated

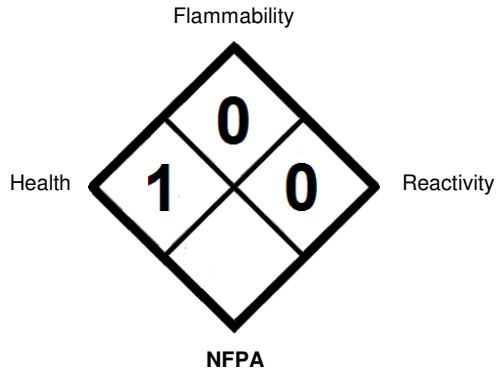
**SECTION 16**

**Additional Information**

Conditions aggravated/target organs: Persons with preexisting skin, eye or respiratory disorders may be more susceptible. Acute: Skin, eye,

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respiratory and GI tract irritation, abdominal pain and vomiting. Chronic: Effects similar to those of acute exposure.



Revisions

|          |     |  |
|----------|-----|--|
| 8/2/2010 | 0.1 | updated msds to 16 section from 10 section msds. STN |
|          | 0   |  |

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