

MATERIAL SAFETY DATA SHEET

Acetate Buffer pH 4.5

SECTION 1 . Product and Company Identification

Product Name and Synonym: Acetate Buffer pH 4.5

Product Code: 0022

Material Uses:

Manufacturer: Science Stuff
1104 Newport Ave

Austin, TX 78753

(512) 837-6020

Entry Date : 5/23/2013

Print Date: 5/23/2013

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

| | |
|---------------|---|
| Health: | 2 |
| Flammability: | 1 |
| 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 cause irritation and burns. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

SECTION 3 MIXTURE COMPONENTS

| SARA 313 | Component | CAS Number | Percent Comp. | Dimension | Exposure Limits |
|--------------------------|-------------------------------|----------------|---------------|-----------|---|
| <input type="checkbox"/> | Acetic Acid, Glacial | CAS# 64-19-7 | <10% | W/V | 10 ppm OSHA TWA, 15 ppm OSHA STEL |
| <input type="checkbox"/> | Sodium Acetate Trihydrate | CAS# 6131-90-4 | 41% | 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 cause irritation and burns. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

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

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Carbon Dioxide, dry chemical powder or

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appropriate foam
Fire / Explosion Hazards: Combustible. Material will burn in a fire.
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

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

SECTION 7 HANDLING AND STORAGE

Keep away from heat and flame. Do not get in eyes, on skin, on clothing. Use with adequate ventilation.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Organic Vapor Cartridge
Ventilation
Local Exhaust
Mechanical
Protective Gloves: Wear appropriate gloves to prevent skin exposure
Eye Protection: Splash Goggles
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------|---|-----------------------------|---------------------------|
| Melting Point: | Information not available | Percent Volatile by Volume: | >85% |
| 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 | Not applicable |
| Solubility in Water: | Soluble | Lower Flamm. Limit in Air | Not applicable |
| Appearance /Odors: | clear liquid with pungent acetic acid smell | Upper Flamm. Limit in Air | Not applicable |
| Flash Point: | information not available | | |
| Specific Gravity: | Information not available | | |

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: Avoid contact with heat, sparks, flames, or other sources of ignition.

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Materials to Avoid: Oxidizing agents, metals, bases, amines.
Hazardous Decomposition Products: Toxic fumes of: Carbon Monoxide, Carbon Dioxide
Hazardous polymerization: Not known to occur
Conditions to Avoid: None known

SECTION 11 Toxicological Information

SECTION 12 Ecological Information

SECTION 13 Disposal Considerations

SECTION 14 Transport Information

DOT Classification: Corrosive Liquid, n.o.s. (Acetic Acid), 8, UN1760, PG II

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

SECTION 15 Regulatory Information

SECTION 16 Additional Information

DANGER! CORROSIVE! May be fatal if ingested! May be harmful if inhaled. Causes burns to any area of contact! For eye or skin contact, immediately flush with water for at least 15 minutes. In case of ingestion, DO NOT induce vomiting. Give large quantities of water or milk. Get medical attention immediately.

Flammability

Health

Reactivity

Revisions

NFPA

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