

MSDS**Material Safety Data Sheet**

24 HOUR EMERGENCY
TELEPHONE NUMBER
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Acetic Acid, 4%, w/v

Section I: PRODUCT IDENTIFICATION

Name: 4% Acetic Acid Solution

Azer Scientific Product Number: ES634-16, ES634-32, ES634-1G

Product Description: Acetic Acid Solution

Cas No: N/A for mixtures

Formula: NA

Section II: HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

| Component(s): | CAS Number | OHSA PEL, ACGIH TLV/STEL | |
|----------------------|-------------------|---------------------------------|-------|
| Acetic Acid 4% w/v | 64-19-7 | NA | 25/NA |

| NFPA | Health | 1 |
|-------------|--------------|---|
| | Flammability | 0 |
| | Reactivity | 0 |

Section III: PHYSICAL / CHEMICAL COMPOSITION

| | |
|---|--|
| Boiling Point: ~212°F | Specific Gravity (H₂O = 1): ~1 |
| Vapor Pressure mm Hg/20°C: NE | Percent Volatile by Vol: NA |
| Vapor Density (Air 1:1): NE | Evaporation Rate (ether = 1) .> 1 |
| Solubility in H₂O: Complete | Appearance & Odor: Clear Liquid/ Pungent Odor |

Section IV: FIRE/EXPLOSION HAZARD DATA

Flash Point: Non-flammable **Flammable Limits:** LEL: NA UEL: NA
Extinguishing Media: Water Spray, Dry Chemical, CO₂ and Foam.

Special Fire Fighting Procedures: Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.

Unusual Fire & Explosion Hazards: None Known

Section V: REACTIVITY DATA

Stability: Stable.

Material to Avoid: Reducing agents, metals, most powdered metals and strong acids.

Hazardous Decomposition or Byproducts: Oxides of carbon and nitrogen.

Hazardous Polymerization: Does not occur.

Conditions to Avoid: Normal laboratory Care.

Section VI: HEALTH HAZARD DATA

Routes of Entry: Inhalation, Skin and Ingestion

Target Organs: Respiratory system.

Acute/Chronic: Product is not expected to cause health hazards when utilizing good laboratory practices.

Carcinogenicity: Not classified as a human carcinogen.

Signs/Symptoms of Exposure: Skin, eyes and respiratory irritation.

******* Emergency First Aid *******

Skin: Remove contaminated clothing. Wash affected skin area with soap and water.

Eyes: Thoroughly flush eyes with water. Contact a physician if irritation persists.

Ingestion: Rinse mouth thoroughly with water, provided person is conscious and contact a physician.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

Section VII: SAFE HANDLING

Chemical Release or Spill: Isolate the spill area with sand, or other absorbent material. Place all contaminated material in close container for proper disposal.

Waste Disposal Method: All liquid and or contaminated material should be disposed of in DOT approved waste containers. Comply with all Federal, State and Local regulations for disposal.

Precautions for Handling and Storing: Normal Laboratory Care.

Section VIII: CONTROL MEASURES

Respiratory Protection: Not normally required.

Ventilation: Mechanical or General exhaust is sufficient

Protective Gloves: Chemical resistant.

Eye Protection: Safety glasses.

Other Protective Clothing or Equipment: Normal laboratory apparel suggested by Good Laboratory Practices.

Work/Hygienic Practices: Wash thoroughly with soap and water after handling.

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