

SAFETY DATA SHEET (SDS)

25% Acetic Acid

01. Product and Company Identification

Product Identifier:

Trade Name: Acetic Acid, 25% solution
Chemical Name: Acetic Acid, 25% solution
Catalog Number: 35062009, 35062017
Part of Kits: 35061266, 35061258
Use of chemical: Laboratory chemical

Identification of Manufacturer:

Manufacturer/Supplier: Biochemical Diagnostics, Inc.
 180 Heartland Blvd., Edgewood, NY 11717
 Phone: (631) 595-9200 | Fax: (631) 595-9204
Emergency telephone number: (800) 255-3924

02. Hazard(s) Identification

Classification of substance or mixture:

Skin corrosion (Category 1A), Serious eye damage (Category 1)
Skin severe skin burns and eye damage

Label elements:

Hazard pictograms



Corrosion

Signal word: Danger

Hazard statements:

H303 + H313 May be harmful if swallowed or in contact with skin.
 H314 Causes severe skin burns and eye damage.

Precautionary statements:

P233 Keep container tightly closed.
 P264 Wash skin thoroughly after handling.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection
 P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.
 Rinse skin with water/ shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 3
 Fire = 0
 Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH	3
FIRE	0
REACTIVITY	0

Health = 3
 Fire = 0
 Reactivity = 0

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03. Composition/information on ingredients

Chemical Characterization:	diluted Solvent
CAS No. Description	: 64-19-7
Formula	: CH ₃ COOH 25% in Water
Molecular weight	: 60.05 g/mol

04. First aid measures

Description of first aid measures:

- Inhalation:** Remove to fresh air. Harmful if inhaled, may cause damage to respiratory passages and lungs. Consult a physician.
- Ingestion:** Rinse mouth with water. Seek medical attention.
- Skin Contact:** Contact cause severe burns. Remove contaminated clothing. Wash immediately with soap and water.
- Eye Contact:** Rinse with thoroughly with plenty of water for at least 15 minutes. Seek medical attention.

05. Firefighting measures

Extinguishing media: Water spray, dry chemical, alcohol-resistant foam, or carbon dioxide.

Special Fire Fighting Procedures: Wear proper protective equipment w/Self contained breathing apparatus.

Unusual Fire and Explosion Hazards: Contact with strong oxidizers may cause fire.

06. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Avoid breathing vapors, mist or gas. Keep unprotected persons away. Ensure adequate ventilation.

Environmental precautions:

Prevent further leakage if safe to do. Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and remove.

Waste Disposal Method:

Dispose in accordance with state, local and federal regulations

07. Handling and storage

Handling:

Precautions for safe handling: No special precautions are necessary if used correctly.

Conditions for safe storage, including any incompatibilities:



Requirements to be met by storerooms and receptacles: Store in a cool location.

Further information about storage conditions: Keep receptacle tightly sealed.

Store in well-ventilated, cool, dry conditions in well-sealed receptacles. Keep container upright to prevent leakage.

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08. Exposure controls/ personal protection	
Exposure Controls:	
Control parameters: Components with limit values that require monitoring at the workplace: 64-19-7 Acetic Acid PEL Long-term value: 25 mg/m ³ , 10 ppm REL Long-term value: 25 mg/m ³ , 10ppm TLV Short-term value: 37 mg/m ³ , 15 ppm	
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.	
Eye Protection:	 Tightly sealed safety glasses or face shield.
Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact	
Protection of Hands:	 Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Dispose of gloves after use.
Respiratory Protection: Use approved fume hood. If the exposure limit is exceeded, use NIOSH approved and tested full-face respirator that is independent of circulating air.	
Ventilation: Keep vapor levels as low as possible, use adequate general or local exhaust.	

09. Physical and chemical properties	
Appearance:	
Form: Liquid Color: Colorless	
Odor: Pungent Odor	
pH: 1	
Melting Point: not available	
Boiling Point: 110°C/ 230°F	
Flash Point: 42.8°C (109 °F)	
Ignition temperature: no data available	
Explosion limits: Lower: no data available Upper: no data available	
Vapor Pressure @ 20°C: 11.4 mm Hg	
Specific Gravity @ 20°C (68°F): 1.020 g/cm ³	
Vapor Density: 2.07, Air=1	
Percent Volatile: 100%	
Evaporation Rate: 0.97	
Flammable Limits in air % by volume: Lel: 5.4 % Uel: 16.0 %	
Solubility in/ Miscibility with Water@20°C: soluble	

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10. Stability and reactivity**Stability:** Stable**Incompatibility:** Avoid nitrates, aluminum or magnesium, strong oxidizers, amines, alkali metals, strong bases, or strong acids. Vinyl compounds, rubber, water, heat.**Conditions to Avoid:** Heat, sparks, open flame. Exposure to sunlight.**Hazardous Polymerization:** Will not occur**Hazardous Decomposition:** Carbon oxides may form under fire conditions.**11. Toxicological information****Acute toxicity:****LD/LC50 values that are relevant for classification: Acetic Acid**

Oral LD50 3,310 mg/kg (rat)

Inhalation no data available

Dermal LD50 1.06 L/kg (rabbit)

Potential health effects:**On the skin:** May be harmful if absorbed through skin. Contact causes skin burns.**On the eye:** Causes eye burns.**Inhalation:** May be harmful to the tissue of the mucus membranes and upper respiratory tract.**Ingestion:** May be harmful if swallowed.**12. Ecological information****Toxicity:** No data available.**Persistence and degradability:** No data available.**Bioaccumulative potential:** No data available.**Mobility in soil:** No data available.**Other adverse effects:** No data available.**13. Disposal considerations****Waste treatment methods****Product:**

Neutralize with 5% Sodium Hydroxide or Sodium Carbonate solutions, and then pour into the drain while flushing with water, if allowed. If not allowed, save for recovery or recycling in an approved waste disposal facility.

Always dispose of in accordance with local, state and federal regulations.

Contaminated packaging:

Disposal must be made according to official regulations.

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14. Transport Information
UN Number: 2790
UN proper shipping name: Acetic acid solution
Transport hazard class(es): 8
Packing group: III
Environmental hazards: None
Special precautions None

15. Regulatory Information
SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard

16. Other Information
Revision B, June 2015

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