



Biochemical Diagnostics, Inc.

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MATERIAL SAFETY DATA SHEET

GENERAL INFORMATION

TRADE NAME: Acetic Acid, 25% solution

Catalog Number: 3506200-9, 3506201-7

Part of Kit: 3506126-6, 3506125-8

Chemical Name: Acetic Acid, 25% solution

CAS #: 64-19-7

Formula: CH₃COOH

INGREDIENTS

Components: diluted Acetic Acid

Threshold Limit Values: N/A

PHYSICAL DATA

Molecular Weight: 60.05

Boiling Point: @110 C

Vapor Pressure: 11.4 mm hg

Vapor Density: 2.07

Specific Gravity: 1.020

Percent Volatile: 100%

Evaporation Rate: 0.97

Solubility H₂O: Miscible

pH: @1.0

Appearance: Clear/Colorless liquid

Odor: Pungent Odor

FIRE AND EXPLOSION HAZARD DATA

Flammable limits in air % by volume:

Lel: 5.4%

Uel: 16.0%

Flash Point: 109 F

Auto Ignition Temp: N/A

Extinguishing Media: CO₂, Dry Chemical Foam, Water Mist.

Special Fire Fighting Procedures: Wear Self-contained positive pressure breathing apparatus. Wear Acid-resistant protective suit (full face shield) with rubber boots and gloves.

Unusual Fire and Explosion Hazards: Moderate

REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Heat, contact with ignition sources, diluted acid reacts with metals to produce flammable hydrogen gas.

Materials to Avoid: Oxidizers, strong Alkalis, Metals, Amines, Cyanides, Sulfides, Chromic Acid, Nitric Acid, Hydrogen Peroxide, Carbonates.

Hazardous Polymerization: Does not occur.

Hazardous Decomposition: Carbon dioxide, carbon monoxide

ENVIRONMENTAL PROTECTION PROCEDURES

Spill Response: Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate any ignition sources until area is free from explosion or fire hazard.

Waste Disposal Method: Comply with federal, state, and local regulations on reporting releases. We recommend spill-X neutralizer and absorbent agents for various types of spills.

SPECIAL PROTECTION INFORMATION

Eye Protection: Safety glasses with side shields.

Skin Protection: Impervious protective clothing should be worn to prevent skin contact, and protective gloves.

Respiratory Protection: Use approved fume hood.

Ventilation: Use approved fume hood or other with equivalent ventilation.

SPECIAL PRECAUTIONS

Contaminated Equipment Precautions :
Neutralize and wash equipment thoroughly.

Hygienic Handling and Storage:
Wash thoroughly after handling.

EMERGENCY AND FIRST AID PROCEDURES :

Ingestion: DO NOT induce Vomiting, May be fatal if swallowed. Get immediate medical attention.

Inhalation: Harmful if inhaled, may cause damage to respiratory passages and lungs, Remove to fresh air, Give artificial respiration if needed.

Skin Contact: Contact causes severe burns. Remove contaminated clothing. Immediately flush thoroughly with large amounts of water.

Eye Contact: Can cause eye damage. Immediately flush thoroughly with large amounts of water for 15 minutes, seek medical attention.

Heath:	2	Moderate
Flammability:	2	Moderate
Reactivity:	2	Moderate
Contact:	2	Moderate

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