MATERIAL SAFETY DATA SHEET

Acetic Acid, Glacial

SECTION I NAME

Product: Acetic Acid, Glacial

Chemical Synonyms: Ethanoic Acid; Methanecarboxylic Acid

Formula: CH₃COOH

Unit Size: up to 2.5 Lt.

C.A.S. No.: 64-19-7

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s) % TLV Units
Acetic Acid, Glacial 99.8% TWA: 10 ppm STEL: 15 ppm

SECTION III PHYSICAL DATA

Melting Point (°F): 16.7°C (62°F)
Boiling Point (°F): 118.1°C (244°F)
Vapor Pressure (mm Hg): 11.4 mm @ 20°C (68°F)
Vapor Density (Air=1): 2.07
Solubility in Water: Complete
Appearance & Odor: Clear, colorless liquid; strong acid vinegar-like odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 42.7°C (109°F) CC.
Extinguishing Media: Use carbon dioxide (CO₂), dry chemical, alcohol foam. Large spills, use water spray or alcohol foam.

SECTION V HEALTH HAZARD DATA

Threshold Limited Value: TWA: 10 ppm STEL: 15 ppm (ACGIH 2001)

Ingestion: Causes severe irritation of and damage to mouth, throat and stomach. May be fatal. EYES: Can cause chemical burn. Damage irreversible. Vapors are severely irritating. SKIN: Can cause chemical burn.

SECTION VI REACTIVITY DATA

Stability: Unstable
Conditions to Avoid: Keep from freezing. Avoid excessive temperature, heat, sparks and open flame.

Effects of Overexposure

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Eliminate all sources of ignition. Avoid eye or skin contact. To neutralize odor or acidity, cover contaminated surface with soda ash or sodium bicarbonate. Place leaking containers in a well-ventilated area with spill containment. If fire potential exists, blanket spill with alcohol-type aqueous film-forming foam. Cover spill with absorbent material and place in suitable container for disposal. Avoid runoff to sewers and ditches which lead to natural waterways.

Waste Disposal Method: Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Preferred method of waste disposal are incineration or biological treatment in federal/state approved facility.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection: For laboratory use work in ventilation hood or wear a NIOSH/MSHA-approved respirator.

Protective Gloves: Rubber.
Eye Protection: Chemical safety goggles, face shield.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing: Store in a well-ventilated area away from heat, sparks and open flame. Keep in tightly closed container, at a temperature above 17°C (63°F). Keep separate from oxidizing materials and combustible materials. Remove cap slowly.

Other Precautions: Keep container tightly closed when not in use. Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Use adequate ventilation.

Revision No. 9 Date 01/01/07 Approved James A. Bertsch Chemical Safety Coordinator JAB

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

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(2004 EMERGENCY RESPONSE GUIDEBOOK, RSA P 5800.9, GUIDE PAGE NO. 132)

D.O.T.: Acetic acid, glacial, 8, (3), UN2789, PG II, Ltd Qty ≤ 1 Lt

Effective Date: January 1, 2007

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