

**FLINN SCIENTIFIC, INC.**  
**Material Safety Data Sheet (MSDS)**

MSDS #: 5.10

Revision Date: November 22, 2010

**SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Acetic Acid Solution (<3%)**

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

**SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS**

Acetic Acid (64-19-7) <3% and Water (7732-18-5) >97%

Synonyms: vinegar acid, ethanoic acid solution

CAS#: None established

**SECTION 3 — HAZARDS IDENTIFICATION**

Clear, colorless aqueous solution. Slight vinegar-like odor.

Substance not considered hazardous. Prolonged inhalation of vapors may cause respiratory tract irritation.

**FLINN AT-A-GLANCE**

Health-0

Flammability-0

Reactivity-0

Exposure-0

Storage-0

0 is low hazard, 3 is high hazard

**SECTION 4 — FIRST AID MEASURES**

Call a physician and seek medical attention for further treatment, observation, and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.

Eye: Immediately flush with fresh water for at least 15 minutes.

External: Wash continuously with fresh water for at least 15 minutes.

Internal: Do NOT induce vomiting. Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

**SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable, noncombustible solution.

**NFPA CODE**

None  
established

**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

Restrict unprotected personnel from the area. Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

**SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Organic #1. Store with acids, anhydrides, and peracids.

**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

Avoid contact with eyes. Wear chemical splash goggles. Use ventilation to keep airborne concentrations below exposure limits. Exposure guidelines: TWA 10 ppm, STEL 15 ppm (as acetic acid) (OSHA, NIOSH)

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Clear, colorless liquid with a slight vinegar-like odor.

Solubility: Soluble in water.

Formula: CH<sub>3</sub>CO<sub>2</sub>H

Formula Weight: 60.05

Concentration: <0.5 molar; <3% acetic acid

pH: 2-3

**SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with strong oxidizers, especially chromic and nitric acids.

Shelf Life: Indefinite.

**SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: N.A.

ORL-RAT LD<sub>50</sub>: N.A.

Chronic effects: Prolonged inhalation of vapors can cause irritation of the respiratory tract.

IHL-MUS LC<sub>50</sub>: N.A.

Target organs: Respiratory tract.

SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

**SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

**SECTION 13 — DISPOSAL CONSIDERATIONS**

Please consult with state and local regulations.

Flinn Suggested Disposal Method #26b is one option.

**SECTION 14 — TRANSPORT INFORMATION**

Shipping Name: Not regulated

Hazard Class: N/A

UN Number: N/A

N/A = Not applicable

**SECTION 15 — REGULATORY INFORMATION**

Not listed.

**SECTION 16 — OTHER INFORMATION**

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**Consult your copy of the *Flinn Science Catalog/Reference Manual*  
for additional information about laboratory chemicals.**