

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 5.20

Revision Date: March 21, 2014

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Acetic Acid Solution, 4.3 M - 6 M

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

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **WARNING**

Pictograms



### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2B). Causes skin and eye irritation (H315+H320).

Hazard class: Sensitization, skin (Category 1). May cause an allergic skin reaction (H317). Avoid breathing mist, vapors or spray (P261).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Acetic acid	64-19-7	CH <sub>3</sub> COOH	60.05	25 - 89%
Water	7732-18-5	H <sub>2</sub> O	18.00	11 - 75%

### SECTION 4 — FIRST AID MEASURES

Get medical advice or attention especially if irritation persists (P313+P337+P333).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. (P305+P351+P338). **If on skin:** Wash with plenty of water (P302+P352). Take off contaminated clothing and wash before reuse (P362).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution.

**In case of fire:** Use a tri-class dry chemical fire extinguisher.

**NFPA CODE**  
None  
established

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Contain the spill with sand or other inert absorbent material, neutralize with sodium bicarbonate or calcium hydroxide, and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Organic #1. Store with acids, anhydrides and peracids. Store away from nitric acid. Store in a dedicated acid cabinet. If an acid cabinet is not available, store in a Flinn Saf-Cube™. Always add acid to water.

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

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Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Contaminated work clothing should not be allowed out of the workplace (P272). Use nitrile, neoprene or butyl rubber gloves. Exposure guidelines: PEL 10 ppm as acetic acid (OSHA) TLV 10 ppm STEL 15 ppm as acetic acid (ACGIH)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Clear, colorless liquid. Strong vinegar-like odor. pH ~2  
Soluble: Water

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with strong oxidizers, especially chromic and nitric acids.  
Shelf life: Good, if stored properly. Store in a dedicated acid cabinet.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Skin and eye irritation.	ORL-RAT LD <sub>50</sub> : 3310 mg/kg as acetic acid
Chronic effects: Respiratory tract inflammation.	IHL-MUS LC <sub>50</sub> : 5620 ppm/1H as acetic acid
Target organs: Mucous membranes, respiratory tract, eyes, skin.	SKN-RBT LD <sub>50</sub> : 1.06 mg/kg as acetic acid

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

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**SECTION 12 — ECOLOGICAL INFORMATION**

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May be toxic to aquatic life.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.  
Flinn Suggested Disposal Method #24a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Acetic Acid Solution; Hazard class: 8, Corrosive, Flammable Liquid; UN number: UN2790

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed; EINECS-listed (200-580-7); RCRA code D001, D002.

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**SECTION 16 — OTHER INFORMATION**

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

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