

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

MSDS #: 660.00

Revision Date: March 19, 2003

---

### Section 1 — Chemical Product and Company Identification

---

## Propionic Acid

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

---

Propionic Acid

CAS#: 79-09-4

---

### Section 3 — Hazards Identification

---

Colorless, oily liquid; rancid odor.

Moderately toxic by ingestion, inhalation, and skin absorption. Corrosive to body tissues. Avoid all body tissue contact.

Combustible liquid.

#### FLINN AT-A-GLANCE

Health-2  
Flammability-1  
Reactivity-1  
Exposure-2  
Storage-0

0 is low hazard, 3 is high hazard

---

### Section 4 — First Aid Measures

---

Call a physician, 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 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give 1 to 2 cups of water or milk, followed by a gastric antacid, such as milk of magnesia. Do not induce vomiting. Call a physician or poison control at once.

---

### Section 5 — Fire Fighting Measures

---

Class II combustible liquid.

Flash Point: 125 F UEL: 12.1% LEL: 2.9% Autoignition Temperature: 955 F

**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

H-2  
F-2  
R-0

---

### Section 6 — Accidental Release Measures

---

Restrict unprotected personnel from area. Remove all ignition sources and ventilate area. Contain spill with sand and absorbent material, neutralize with sodium bicarbonate or calcium hydroxide and deposit in 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.

Store in a cool dry place. Use and dispense in a hood.

---

### Section 8 — Exposure Controls, Personal Protection

---

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: TWA 10 ppm, STEL 15 ppm (NIOSH, NIOSH)

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

Propionic Acid

MSDS #: 660.00

Revision Date: March 19, 2003

### Section 9 — Physical and Chemical Properties

Colorless, oily liquid, rancid odor.

Solubility: Soluble in water, alcohol and other organic solvents.

Formula: CH<sub>3</sub>CH<sub>2</sub>COOH

Formula Weight: 74.09

Specific Gravity: 0.9942

Melting Point: -23 C

Boiling Point: 141 C

Vapor Pressure: 2.4 mm (20 C)

Vapor Density: 2.55

### Section 10 — Stability and Reactivity

Avoid contact with bases, strong oxidizing agents and reducing agents.

Shelf life: Indefinite.

### Section 11 — Toxicological Information

Acute effects: Toxic, corrosive

Chronic effects: N.A.

Target organs: N.A.

ORL-RAT LD50: 2600 mg/kg

IHL-RAT LC50: N.A.

SKN-RBT LD50: 500 mg/kg

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 #24a is one option.

### Section 14 — Transport Information

Shipping Name: Propionic Acid

Hazard Class: 8, Corrosive

UN Number: UN1848

N/A = Not applicable

### Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (201-176-3), RCRA code D001, D002.

### Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

**FLINN SCIENTIFIC INC.**

"Your Safer Source for Science Supplies"

*Flinn--"Your Safer Source for Chemicals"*

flinn@flinnsci.com www.flinnsci.com  
P.O. Box 219 Batavia IL 60510  
(800) 452-1261 Fax (866) 452-1436