

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 660.00

Revision Date: September 27, 2010

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
Synonym: propanoic 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 or other inert 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.**Material Safety Data Sheet Propionic Acid****MSDS #:** 660.00**Revision Date:** September 27, 2010**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Colorless, oily liquid, rancid odor.

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

Formula: $\text{CH}_3\text{CH}_2\text{COOH}$

Formula Weight: 74.09

Boiling Point: 141 °C

Melting Point: -23 °C

Specific Gravity: 0.9942

Vapor Density: 2.55 (Air=1)

Vapor Pressure: 2.4 mmHg @ 20 °C

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/kgIHL-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: UN3463

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

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

SECTION 16 — OTHER INFORMATION

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