

Safety Data Sheet (SDS)

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) 424-10198

Signal Word
DANGER

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 3). Flammable liquid and vapor (H226). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral (Category 5). May be harmful if swallowed (H303).

Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314). Do not breathe gas, mist, vapors or spray (P260).



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Propionic acid	79-09-4	CH ₃ CH ₂ COOH	74.08	
Synonyms: Propanoic acid; Carboxyethane; Ethanecarboxylic acid; Ethylformic acid; Methylacetic acid; Metacetic acid				

SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

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 or hair:** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). Wash contaminated clothing before reuse (P363).

If swallowed: Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

SECTION 5 — FIRE FIGHTING MEASURES

Class II combustible liquid.

Flash point: 52 °C Flammable limits: Lower: 2.9% Upper: 12.1% Autoignition Temperature: 465

NFPA Code
H-3

°C

F-2

When heated to decomposition, may emit toxic fumes.

R-0

In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).

SECTION 6 — ACCIDENTAL RELEASE MEASURES

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.

Keep container tightly closed (P233). Keep cool (P235).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

Exposure guidelines: TLV 10 ppm (ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless, oily liquid. Rancid odor.

Boiling point: 140-141 °C Melting point: -21 °C

Soluble: Water, alcohol and chloroform.

Flash point: 51 °C Ignition temp: 485 °C

Specific gravity: 0.988

Vapor pressure at 20 °C: 4 hPa (3 mm Hg)

SECTION 10 — STABILITY AND REACTIVITY

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

Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Severe skin and eye burns and irritation;

ORL-RAT LD₅₀: 2600 mg/kg

blurred vision, corneal burns; skin burns; abdominal

IHL-RAT LC₅₀: N.A.

pain, nausea, vomiting

SKN-RBT LD₅₀: 500 mg/kg

Chronic effects: N.A.

Target organs: Eyes, skin, respiratory tract.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #24a is one option.

SECTION 14 — TRANSPORT INFORMATION

UN number: UN3463. Shipping name: Propionic Acid. Hazard class: 8, Corrosive. Packing group: II

SECTION 15 — REGULATORY INFORMATION

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

SECTION 16 — OTHER INFORMATION

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

N/A = Not applicable

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

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