

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

MSDS #: 486.10

Revision Date: November 25, 2002

---

### Section 1 — Chemical Product and Company Identification

---

#### Malonic Acid Solution

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

---

Malonic Acid (141-82-2) 1-5%, and Water (7732-18-5) 95-99%.

CAS#: None Established

---

### Section 3 — Hazards Identification

---

Colorless solution. Slight acetic acid (vinegar) odor.  
This substance is regulated (as a drug intermediate) in some states.  
Body tissue irritant. Avoid all body tissue contact.

#### FLINN AT-A-GLANCE

Health-0  
Flammability-0  
Reactivity-0  
Exposure-1  
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 large quantities of water. Call a physician or poison control at once.

---

### Section 5 — Fire Fighting Measures

---

Non combustible liquid.

#### NFPA CODE

None Established

---

### Section 6 — Accidental Release Measures

---

Restrict unprotected personnel from area and ventilate area. Contain spill with sand or absorbent material; 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.

---

### Section 8 — Exposure Controls , Personal Protection

---

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

---

### Section 9 — Physical and Chemical Properties

---

Colorless solution. Slight acetic acid (vinegar) odor.

Solution contains malonic acid and water.

1% solution is 0.1 Molar

---

### Section 10 — Stability and Reactivity

---

Shelf Life: Indefinite.

---

### Section 11 — Toxicological Information

---

Acute effects: Irritant

Chronic effects: N.A.

Target organs: N.A.

ORL-RAT LD50: N.A.

IHL-RAT LC50: N.A.

SKN-RBT LD50: 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 #24a 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

---

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 Chemicals--Your Best Choice*

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