

## Malonic Acid Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Malonic Acid

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261  
Chemtrec Emergency Phone Number: (800) 424-9975

**Signal Word**  
**DANGER**

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Hazard class: Skin corrosion or irritation (Category 3). Causes mild skin irritation (H316).

Hazard class: Serious eye damage or irritation (Category 1). Causes serious eye damage (H318).

Hazard class: Acute toxicity, inhalation (Category 5). May be harmful if inhaled (H333).

Pictograms



### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Malonic acid	141-82-2	CH <sub>2</sub> (CO <sub>2</sub> H) <sub>2</sub>	104.07	
Synonyms: Propanedioic acid				

### SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

**If inhaled:** Call a POISON CENTER or physician if you feel unwell (P304+P312).

**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 skin irritation occurs:** Get medical advice or attention (P332+P313).

**If swallowed:** Rinse mouth (P330). Call a POISON CENTER or physician if you feel unwell (P301+P312).

### SECTION 5 — FIRE FIGHTING MEASURES

Combustible solid.

When heated to decomposition, may emit toxic fumes.

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

**NFPA Code**  
None established

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Wipe up the spill, place in a sealed bag or container, and dispose. Ventilate area and wash spill site after material pickup is complete. 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.

### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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

### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White crystals. Faint beef bouillon odor.

Soluble: Water, alcohol, and ether

Boiling point: sublimes

Melting point: 135 °C (decomposes)

Specific gravity: 1.619

### SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with bases, oxidizers, and reducers.

Shelf life: Indefinite, if stored properly.

### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Severe eye irritant, mild skin irritant, respiratory irritant, gastrointestinal disturbances.

Chronic effects: N.A.

Target organs: Skin, eyes, respiratory tract.

ORL-RAT LD<sub>50</sub>: 1310 mg/kg

IHL-RAT LC<sub>50</sub>: N.A.

EYE-RBT LD<sub>50</sub>: 100 mg

### 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

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (205-503-0).

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**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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