

**FLINN SCIENTIFIC, INC.**  
**Material Safety Data Sheet (MSDS)**

MSDS #: 486.20

Revision Date: November 19, 2010

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**SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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**Malonic Acid and Potassium Bromide Solution**

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

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**SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS**

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Malonic acid (141-82-2) 3.2%, potassium bromide (7758-02-3) 0.7%, and Water (7732-18-5) 96.1%.

CAS#: None established

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**SECTION 3 — HAZARDS IDENTIFICATION**

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Colorless aqueous solution. Faint vinegar-like odor.  
Malonic acid 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

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**SECTION 4 — FIRST AID MEASURES**

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Call a physician and 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 at least 15 minutes.  
External: Wash continuously with fresh water for at least 15 minutes.  
Internal: Give large quantities of water. Call a physician or poison control at once.

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**SECTION 5 — FIRE FIGHTING MEASURES**

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Nonflammable liquid.

**NFPA CODE**

None  
established

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**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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Restrict unprotected personnel from the area and ventilate area. Contain the spill with sand or absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Organic #1. Store with acids, anhydrides, and peracids.

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Colorless solution with a slight acetic acid (vinegar) odor.  
Solution contains malonic acid and water.  
Concentration: 0.31 M malonic acid and 0.059 M potassium bromide

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**SECTION 10 — STABILITY AND REACTIVITY**

Shelf Life: Indefinite.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Irritant.	ORL-RAT LD <sub>50</sub> : N.A.
Chronic effects: N.A.	IHL-RAT LC <sub>50</sub> : N.A.
Target organs: N.A.	SKN-RBT LD <sub>50</sub> : N.A.

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

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**SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

Please consult with state and local regulations.  
Flinn Suggested Disposal Method #24a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

Shipping Name: Not regulated  
Hazard Class: N/A  
UN Number: N/A  
N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

Not listed.

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**SECTION 16 — OTHER INFORMATION**

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