

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 515.00

Revision Date: August 18, 2011

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### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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#### Methyl Methacrylate

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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Methyl methacrylate

CAS#: 80-62-6

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### SECTION 3 — HAZARDS IDENTIFICATION

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Colorless, volatile liquid. Strong banana odor.  
Corrosive to body tissues. Sensitizer and lachrymator.  
Avoid all body tissue contact.  
Flammable; fire risk.

#### FLINN AT-A-GLANCE

Health-2  
Flammability-3  
Reactivity-1  
Exposure-2  
Storage-3

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 or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse out mouth. Give large quantities of water for dilution. Induce vomiting. Call a physician or poison control at once.

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### SECTION 5 — FIRE FIGHTING MEASURES

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Class 1B flammable liquid.

Flash point: 10 °C Flammable limits: Lower: 2.12% Upper: 12.5% Autoignition Temperature: 435 °C

When heated to decomposition, emits acrid smoke and irritating fumes.

**Fire Fighting Instructions:** Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

H-2  
F-3  
R-2

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### SECTION 6 — ACCIDENTAL RELEASE MEASURES

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Restrict unprotected personnel from the area. Remove all ignition sources and ventilate area. Contain the spill with sand or other inert 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 #3. Store with hydrocarbons, esters, and aldehydes.

Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in a Flinn Saf-Stor can.

Do not store under inert atmosphere. Use and dispense in a hood.

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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 a 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: PEL 100 ppm (OSHA)

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Colorless, volatile liquid. Strong banana odor.

Solubility: Soluble in most organic liquids. Slightly soluble in water.

Formula:  $\text{CH}_2:\text{C}(\text{CH}_3)\text{CO}_2\text{CH}_3$

Formula weight: 100.13

Boiling point: 100 °C

Melting point: -48 °C

Specific gravity: 0.9377

Vapor density: 3.5

Vapor pressure: 29 mmHg

**SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with oxidizers, peroxides, bases, acids, reducers, amines, halogens, and heat.

Shelf life: Indefinite, if stored properly.

**SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Corrosive, lachrymator, sensitizer

Chronic effects: N.A.

Target organs: Nose, liver, kidneys

ORL-RAT  $\text{LD}_{50}$ : 7872 mg/kg

IHL-MUS  $\text{LC}_{50}$ : 18500  $\text{mg}/\text{m}^3/2\text{H}$

SKN-RBT  $\text{LD}_{50}$ : 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 review all federal, state and local regulations that may apply, before proceeding.

Flinn Suggested Disposal Method #18a is one option.

**SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Methyl methacrylate monomer, inhibited

Hazard class: 3, Flammable liquid

UN number: UN1247

N/A = Not applicable

**SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (201-297-1), RCRA code U162.

**SECTION 16 — OTHER INFORMATION**

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