

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 262.00

Revision Date: April 28, 2011

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### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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#### Collodion

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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Collodion

CAS#:

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### SECTION 3 — HAZARDS IDENTIFICATION

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Clear to slightly opalescent, syrupy liquid. Odor of ether.  
Mildly toxic by ingestion or inhalation. Irritant. Avoid body tissue exposure.  
Dangerous fire risk. Avoid heat, open flame, or any source of ignition.

#### FLINN AT-A-GLANCE

Health-1  
Flammability-3  
Reactivity-1  
Exposure-1  
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 mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

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### SECTION 5 — FIRE FIGHTING MEASURES

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Class IA flammable liquid.  
Flash point: -18 °C Flammable limits: Lower: 1.9% Upper: 48%  
When heated to decomposition, emits toxic fumes of NO<sub>x</sub>.

#### NFPA CODE

H-1  
F-4  
R-0

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

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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 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 #4. Store with ethers, ketones, halogenated hydrocarbons, and ethylene oxide. Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor Can. Keep container tightly closed because substance tends to dry up. 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 exhaust ventilation to keep airborne concentrations low.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Clear to slightly opalescent, syrup liquid. Odor of ether.  
Hazardous contents: Ethyl ether 70%; Ethyl alcohol 24%;  
and Pyroxylin (cellulose nitrate) 4%  
Solubility: Insoluble in water.

Boiling point: 35 °C  
Melting point: -116 °C  
Specific gravity: 0.77  
Vapor density: 2.6  
Vapor pressure: 442 mmHg

**SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with nitric acid, open flame, spark, or any source of ignition.  
Shelf life: Fair.

**SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: N.A.  
Chronic effects: N.A.  
Target organs: N.A.

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

**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 #18b is one option.

**SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Nitrocellulose, Solution, Flammable  
Hazard class: 3, Flammable Liquid  
UN number: UN2059  
N/A = Not applicable

**SECTION 15 — REGULATORY INFORMATION**

Not listed.

**SECTION 16 — OTHER INFORMATION**

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