

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 658.10

Revision Date: September 27, 2010

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Propane

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

Propane

CAS#: 74-98-6

### SECTION 3 — HAZARDS IDENTIFICATION

Colorless gas; natural gas odor. Burns with luminous but somewhat smoky flame.  
An asphyxiant gas. Exposure in a closed area could lead to asphyxiation and death.  
May be narcotic in high concentrations.  
Flammable gas.

#### FLINN AT-A-GLANCE

Health-1  
Flammability-3  
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.

### SECTION 5 — FIRE FIGHTING MEASURES

Extremely flammable gas.  
Flash Point: -156 °F UEL: 9.5% LEL: 2.1% Autoignition Temperature: 874 °F Avoid all sources of ignition. Always turn off the source of gas before trying to fight a fire in a cylinder of propane.  
**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

H-1  
F-4  
R-0

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

A gas leak requires the area be evacuated and ventilated at once. Avoid any source of ignition. If possible, carry the cylinder out of doors and allow the cylinder to leak until empty.

### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Store with other gas cylinders.

### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and 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: TWA 1000 ppm (OSHA)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Colorless gas; natural gas odor. Burns with luminous but somewhat smoky flame.

Solubility: Soluble in ether or alcohol; slightly soluble in water. Heavier than air.

Formula: C<sub>3</sub>H<sub>8</sub>

Formula Weight: 44.09

Melting Point: -188 C

Boiling Point: -42.5 C

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**SECTION 10 — STABILITY AND REACTIVITY**

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An asphyxiant gas. Avoid use in closed quarters. Avoid use near any source of ignition. Avoid contact with strong oxidizers. Shelf Life: Indefinite.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: N.A.

Chronic effects: N.A.

Target organs: Central nervous system

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.

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please consult with state and local regulations.

Vent small gas cylinder in a fume hood or out of doors. Dispose of lecture bottle or disposable tank in the garbage. Refill reusable cylinders.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping Name: Petroleum Gases, Liquefied

Hazard Class: 2.1, Flammable gas

UN Number: UN1075

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (200-827-9), RCRA code D001.

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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.**