

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 658.10

Revision Date: September 28, 2011

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 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.

SECTION 5 — FIRE FIGHTING MEASURES

Extremely flammable gas. Avoid all sources of ignition.
Flash point: -104 °C Flammable limits: Lower: 2.1% Upper: 9.5% Autoignition Temperature: 468 oC
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: PEL 1000 ppm (OSHA)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

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: C₃H₈
Formula weight: 44.096
Melting point: -188 °C
Boiling point: -42.5 °C
Specific gravity: 0.493

SECTION 10 — STABILITY AND REACTIVITY

An asphyxiant gas. Avoid use in closed quarters. Avoid use near any source of ignition. Avoid contact with strong oxidizers.
Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: N.A.

Chronic effects: N.A.

Target organs: Central nervous system

ORL-RAT LD₅₀: N.A.

IHL-RAT LC₅₀: N.A.

SKN-RBT LD₅₀: 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.

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

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Petroleum Gases, Liquefied

Hazard class: 2.1, Flammable gas

UN number: UN1075

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

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

SECTION 16 — OTHER INFORMATION

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