

Precision Gas Products Inc.

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Propane in a Nitrogen

0.0001% to 49%

MATERIAL SAFETY DATA SHEET

Identification

Revision Date 01-01-15

Products Name: PROPANE IN NITROGEN 0.0001% TO 49%

CAS Number: N/A

Chemical Family: Gas Mixture

Chemical formula: C₃H₈ 0.0001% to 49% in Nitrogen

MSDS identification Code/ Number: MSDS 175N

Composition/ Information on Ingredients

**Concentration
Percent by Weight
0.0001 to 49.0**

Ingredient Name

PROPANE CAS Number: 74-98-6

Exposure Limits

- ACGIH TLV-TWA: D. Simple Asphyxiant
- Maintain oxygen levels above 19.5%
- OSHA PEL-TWA: 1000 ppm
- IDLH: 20,000 ppm

NITROGEN Simple Asphyxiant-maintain oxygen levels above 19.5%

51.0 to 99.999

CAS Number: 7727-37-9

Hazard Identification

No data given

First Aid Measures

Inhalation

Prompt medical attention is mandatory in all cases of overexposure. Rescue personnel should be equipped with self-contained breathing apparatus.

Victims should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. If breathing has stopped, administer artificial resuscitation and supplemental oxygen. Further treatment should be symptomatic and supportive.

Fire Fighting Measures

Flammable Properties

Flash Point: Gas

Lower Explosive Limit (%): 2.2 (Propane)

Upper Explosive Limit (%): 9.5 (Propane)

Accidental Release Measures

Evacuate all personnel from affected areas. Use appropriate protective equipment including self contained breathing apparatus and fire turnout gear. If leak is in user's equipment, be certain to purge piping with an inert gas prior to attempting repairs. If leak is in container or container valve, contact CHEMTREC.

Handling and Storage

- Handling and Storage Precautions

Use only in well – ventilated areas. Valve protection caps must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure-reducing regulator when connecting cylinder to lower pressure (<3000 psig) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous backflow into the system. Protect cylinders from physical damage.

Store in cool, dry, well – ventilated area of noncombustible construction away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 125°F. Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Use a “first in, first out” inventory system to prevent full cylinders being stored for excessive periods of time.

Never carry a compressed gas cylinder or a container of a gas in cryogenic liquid form in an enclosed space such as a car trunk, van or station wagon. A leak can result in a fire, explosion, asphyxiation or toxic exposure.

Exposure Controls/Personal Protection

Engineering Controls: Use local exhaust to prevent accumulation. Use general ventilation to prevent buildup of flammable concentrations. May use hood with forced ventilation when handling small quantities.

Eye/Face Protection: Safety goggles or glasses.

Skin Protection: Plastic or rubber gloves.

Respiratory Protection: Positive pressure air lines with mask or self-contained breathing apparatus should be available for emergency use and routine use when exposure levels are above exposure limits.

Other/General Protection: Safety shoes

Physical & Chemical Properties

Appearance: A colorless gas.

Odor: Odorless gas.

Basic Physical Properties

Solubility (H₂O): Negligible

Stability & Reactivity

Stability: Stable

Incompatible Materials: None known

Hazardous Polymerization: Will not occur

Toxicological Information

- Acute Inhalation Effects

Propane and nitrogen are primarily a simple asphyxiant. Oxygen levels should be maintained at greater than 19.5 percent at normal atmospheric pressure that is equivalent to a partial pressure of 135mm Hg.

High concentrations of Propane in Nitrogen gas mixture so as to exclude and adequate supply of oxygen to the lungs causes dizziness, deeper breathing due to air hunger, possible nausea and eventual unconsciousness.

Propane and nitrogen are relatively inactive biologically and essentially nontoxic. However, high concentrations may have a narcotic like effect. Therefore, the major hazard is the exclusion of an adequate supply of oxygen to the lungs.

- Miscellaneous Toxicological Information

Carcinogenicity – NTP: No

IARC: No

OSHA: No

Ecological Information

No data given

Disposal Considerations

Do not attempt to dispose of waste or unused quantities. Return in the shipping container properly labeled, with any valve outlet plugs or caps secure and valve protection cap in place to Precision Gas Products for proper disposal.

Transport Information

Propane <2.1%

Proper Shipping Name: Compressed Gas, N.O.S.
(Nitrogen, Propane)

Hazardous Class: 2.2
CT (DOT) Identification Number: UN 1956
CT (DOT) Shipping Label: Nonflammable gas

Propane >2.1%

Proper Shipping Name: Compressed Gas, N.O.S.
(Nitrogen, Propane)

Hazardous Class: 2.1
CT (DOT) Identification Number: UN 1954
CT (DOT) Shipping Label: Flammable gas

Regulatory Information

No Data Given

Other Information

Hazard Rating	Health:	1 Slight
	Fire:	0 Negligible
	Reactivity:	0 Negligible
MSDS Identification Code/Number: MSDS 175N		

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